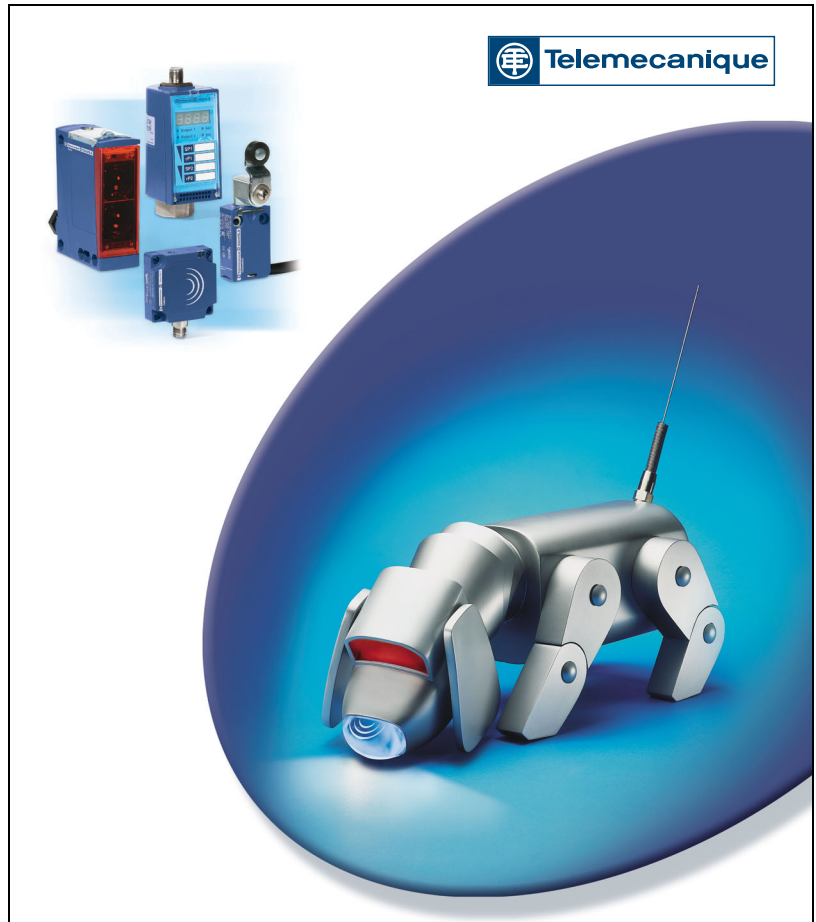


Telemecanique Global Detection

An Essential Quick Selector Guide to Sensor Selection

File 9006



- Merlin Gerin**
- Modicon**
- Square D**
- Telemecanique**

Schneider Electric Brands

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The Essential Guide to Detection

A selection of the top selling products for simplicity in selection

OEM's

with **Osiconcept®**
 Improve performance by making your machines less complicated and more intelligent.

Introducing Telemecanique's major innovation:

Osiconcept®
 Offering simplicity through innovation

Distributors

with **Osiconcept®**
 Improve customer expertise with an efficient product line offering simplified selection and improved selling potential.

A worldwide detection first for improving productivity.

A complete offer for resolving your most commonly encountered detection problems:

- product selection simplified
- product availability simplified
- installation and setting-up simplified
- maintenance simplified
- detection simplified using a single supplier.

Improved simplicity for improved productivity.

Users

with **Osiconcept®**
 Improve performance by reducing maintenance time with products that are simpler and unequalled in flexibility.

Select the sensor according to your specific requirements

“Universal” series:

Multi-purpose products providing multiple functions. Also includes

Osiconcept® products.

“Standard” series:

Designed for designated and repetitive functions.

“Application” series:

Offers functions specifically for specialist needs, thus providing the ideal solution for your more complex applications.

Osiconcept®

A complete range of innovative and simple to use sensors.

Osiris Photoelectric Sensors

Page 4



A single product that automatically adapts to all modes of sensing

Detects any target regardless of material or shape.

- Detection from a few millimeters to several tens of meters.
- Accessories
- Products for specific applications

A simple press of the teach button automatically configures the sensor for optimal performance in any condition.

Osiprox Inductive Proximity Sensors

Page 14



A single product that automatically adapts to all mounting environments

Detection of metal targets, in or out of metal surroundings.

- Sensing distance/object ≤ 60 mm
- Cylindrical and rectangular body styles
- Specific products for particular applications

A simple press of the teach button automatically configures the sensor for optimal performance whether mounted in or out of metal.

Osiswitch Limit Switches

Page 24



More than 5,000 interchangeable configurations within 24 hours

Detection by contact with rigid objects

- Positivity of electrical contacts
- Object speed ≤ 1.5 m/s
- Specific products for particular 3D applications

One type of metal operating head for 5 different bodies. Modularity also in connections and contacts.

Ultrasonic Sensors

Page 21



Detection using sound waves

- Sensing distance up to 1 meter

Capacitive Proximity Sensors

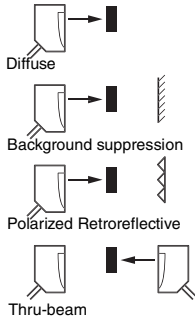
Page 22



Detection of any object or material

- Sensing distance/object ≤ 20 mm

Osiris Photoelectric Sensors



Osiconcept®
Offering simplicity through Innovation

A single product that automatically adapts to all environments.

Programmable NO / NC
NO: object present = output ON
NC: no object present = output ON



		XUB Design 18 plastic	XUB Design 18 metal
Max. Sensing Distance	Diffuse	11.8" / 30 cm	11.8" / 30 cm
	Background Sup.	4.7" / 12 cm	4.7" / 12 cm
	Polarized Retro ■	6.5' / 2 m	6.5' / 2 m
	Thru-Beam ▲	49.2' / 15 m	49.2' / 15 m
Mounting		M18 x 1	M18 x 1
Enclosure M (metal) P (plastic) / Dimensions (mm) Ø x L or H x W x L		P / M18 x 64	M / M18 x 64
Common Characteristics		Adjustable sensing distance: teach mode	

Sensors for DC applications (solid state output: transistor)

Connection: pre-cabled, PvR (2 m)			
T / R 3-wire	PNP programmable NO / NC	XUB0APSNL2	XUB0BPSNL2
	NPN programmable NO / NC	XUB0ANSNL2	XUB0BNSNL2
	PNP / NPN programmable NO / NC	-	-
Connection: M12 connector (M8 for XUM) on M12 only			
T / R 3-wire	PNP programmable NO / NC	XUB0APSNM12	XUB0BPSNM12
	NPN programmable NO / NC	XUB0ANSNM12	XUB0BNSNM12
	PNP / NPN programmable NO / NC	-	-
Connection: Screw clamp terminals			
T / R 3-wire	PNP / NPN programmable NO / NC	-	-
Switching Capacity (mA) main output / alarm output		100 / -	100 / -
Common Characteristics		Supply voltage limits min/max (V) including ripple: 10...36	
Thru-beam accessory	pre-cabled (2 m)	XUB0AKSNL2T	XUB0BKSNL2T
	connector	XUB0AKSNM12T	XUB0BKSNM12T
	screw terminals, M16 cable gland	-	-

Sensors for AC or DC applications 10...36 Vdc / 20...264 Vac including ripple on dc relay output, 3 A

Connection: pre-cabled, PvR (2 m)			
T / R	programmable NO / NC with time delay	-	-
Connection: Screw clamp terminals			
T / R	programmable NO / NC with time delay	-	-
LED Output state indication (✳) / power on LED (★)		-	-
Switching frequency (Hz)		-	-
Time delay(s)		-	-
Thru-beam accessory	pre-cabled, PvR (2 m)	-	-
	screw terminals, M16 cable gland	-	-

Also available in 18 mm 2-wire ac/dc version. Please see the 9006CT0101 Sensors Specification Guide.



90° head
All the above Osiris Design 18 sensors are available with integral 90° head.
Replace the "N" with a "W".
Example: For pre-cabled versions: XUB1APANL2 becomes XUB1APAWL2.
For versions with connector: XUB1APANM12 becomes XUB1APAWM12.

Accessories

Reflectors	(mm)
	Ø 16 XUZC16
	Ø 21 XUZC21
	24 x 21 XUZC24
	Ø 31 XUZC31
	Ø 39 XUZC39
	Ø 80 XUZC80
	50 x 50 XUZC50

■ Reflector sold separately
▲ Emitter and receiver are sold individually

Mounting Brackets	Stainless Steel	Plastic
For		
XUB...	XUZA118 (stnls. steel)	XUZA218 (plastic)
XUM...	XUZA50	-
XUK...	XUZA51	-
XUX...	XUZX2000	-

Mounting Devices	For
	XUB... XUZH2003
	XUM... XUZH2003
	XUK... XUZH2003
	XUX... XUZH2003



XUM	XUK	XUX
Design Miniature	Design Compact 50 x 50	Design Compact
1.3' / 40 cm	3.28' / 1 m	6.5' / 2 m
4" / 10cm	11.8" / 30cm	4.2' / 1.3 m
9.8' / 3 m	13' / 4 m	36' / 11 m
45.8' / 14 m	98.2' / 30 m	131' / 40 m
direct: (Mounting holes 25.5) with M3 screws	direct: (40 x 40) with M4 screws	direct: (30 / 38 / 40 / 50 / 74) with M5 screws
P / 34 x 12 x 20	P / 50 x 18 x 50	P / 91 x 30 x 70
Alignment LEDs (☼): yes / Temperature range - 13...+ 131 °F (- 25...+ 55 °C) / Degree of protection (conforming to IEC 60 529): IP67 (XUK: IP65)		
XUM0APSAL2	-	-
XUM0ANSAL2	-	-
-	XUK0AKSAL2	-
XUM0APSAM8 (1)	-	-
XUM0ANSAM8 (1)	-	-
-	XUK0AKSAM12	XUX0AKSAM12
-	-	XUX0AKSAT16
100 / 50	100 / 50	100 / 50
Switching frequency (Hz): 250 / Overload and short-circuit protection: YES / Output state LED (☼) / Power on LED (★): yes		
XUM0AKSAL2T	XUK0AKSAL2T	XUX0AKSAM12T
XUM0AKSAM8T (1)	XUK0AKSAM12T	-
-	-	XUX0AKSAT16T
-	XUK0ARCTL2	-
-	-	XUX0ARCTT16
-	☼ / ★	☼ / ★
-	20	20
-	Adjustment 0 to 15 s, on delay, or off delay, or one shot	
-	XUK0ARCTL2T	-
-	-	XUX0ARCTT16T



Connector innovation

New, innovative connector that is universal, simple and fast.

For all Telemecanique brand sensors with Snap-C compatible M12 connectors (pointed pins):

- cabling to the required length without using a screwdriver or soldering iron.
- ready in just a few seconds, no stripping required.

Mounting Devices continued

Protective housing with ball joint



For	
XUM...	XUZM2004
XUK...	XUZK2004
XUX...	XUZX2004

M12 rod for ball joint



XUZ2001

Bracket for M12 rod



XUZ2003

Suitable plug-in female connectors, including pre-wired versions

Length 5 m

without LED

M8

M12



Elbowed

XSZCS152

XSZCD112Y



Straight

XSZCS142

XSZCD102Y



Snap-C

-

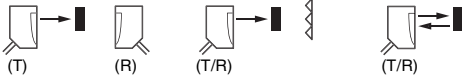
XZCC12FDM40V

(1) M8 not Snap-C® Compatible

Osiris Photoelectric Sensors _ Standard

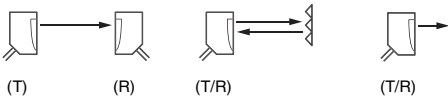
Detection with object present NO Output ON / object present

Thru-beam Polarized Retroreflective Diffuse



Detection with no object present NC Output ON / no object present

Thru-beam Polarized Retroreflective Diffuse



XUB

XUB

XUM

Maximum Sensing Distance	Diffuse	2' / 60 cm	2' / 60 cm	1.3' / 40 cm
	Polarized Reflex ■	6.5' / 2 m	6.5' / 2 m	6.5' / 2 m
	Reflex ■	13' / 4 m	13' / 4 m	13' / 4 m
	Thru-Beam ▲	49' / 15 m	49' / 15 m	26' / 8 m
Mounting (mm)		M18 x 1	M18 x 1	direct: (Mounting holes 25.5) with M3 screws
Enclosure M (metal) P (plastic) / Dimensions (mm) Ø x L or H x W x L		P / M18 x 46	M / M18 x 46	P / 12 x 34 x 27
Alignment LED's ✦		-	-	-
Common Characteristics		Temperature range - 13 to 131 °F (- 25...+ 55 °C)		

Sensors for DC applications --- (solid state output: transistor)

Connection:			2 meter cable	M12 connector	2 meter cable	M12 connector	2 meter cable	M12 connector
Transmitter			XUB2AKSNL2T	XUB2AKSNM12T	XUB2BKSNL2T	XUB2BKSNM12T	XUM2AKSNL2T	XUM2AKSNM8T
Receiver or T/R, 3-wire PNP (1)	Diffuse adjustable	NO	XUB5APANL2	XUB5APANM12	XUB5BPANL2	XUB5BPANM12	XUM5APANL2	XUM5APANM8
		NC	XUB5APBNL2	XUB5APBNM12	XUB5BPNL2	XUB5BPNM12	XUM5APBNL2	XUM5APBNM8
	Polarized retroreflective	NO	XUB9APANL2	XUB9APANM12	XUB9BPANL2	XUB9BPANM12	XUM9APANL2	XUM9APANM8
		NC	XUB9APBNL2	XUB9APBNM12	XUB9BPNL2	XUB9BPNM12	XUM9APBNL2	XUM9APBNM8
	Retroreflective	NO	XUB1APANL2	XUB1APANM12	XUB1BPANL2	XUB1BPANM12	XUM1APANL2	XUM1APANM8
		NC	XUB1APBNL2	XUB1APBNM12	XUB1BPNL2	XUB1BPNM12	XUM1APBNL2	XUM1APBNM8
	Thru-beam	NO	XUB2APANL2R	XUB2APANM12R	XUB2BPANL2R	XUB2BPANM12R	XUM2APANL2R	XUM2APANM8R
		NC	XUB2APBNL2R	XUB2APBNM12R	XUB2BPNL2R	XUB2BPNM12R	XUM2APBNL2R	XUM2APBNM8R
Supply voltage limits min/max (V) including ripple			10...36	10...36	10...36	10...36	10...30	10...30
Switching Frequency (Hz)			500	500	500	500	500	500
Common characteristics for dc versions			Switching capacity, max (mA): 100					

(1) For versions with NPN output, replace the "P" in the above references with an "N".

Sensors for AC or DC applications ~ / --- 10...36 Vdc / 20...264 Vac including ripple on dc relay output, 3 A

Connection			-	-	-	-	-	-
Transmitter			-	-	-	-	-	-
Receiver or T/R	Diffuse	NO + NC	-	-	-	-	-	-
	Polarized retro	NO + NC	-	-	-	-	-	-
	Retro	NO + NC	-	-	-	-	-	-
	Thru-beam	NO + NC	-	-	-	-	-	-
Switching frequency (Hz)			-	-	-	-	-	-
LED Output state indication (★) / power on LED (★)			-	-	-	-	-	-



90° head

All the above Osiris Design 18 sensors are available with integral 90° head. Replace the "N" with a "W". Example: For pre-cabled versions: XUB1APANL2 becomes XUB1APAWL2. For versions with connector: XUB1APANM12 becomes XUB1APAWM12.

Accessories

Reflectors	(mm)	
	Ø 16	XUZC16
	Ø 21	XUZC21
	24 x 21	XUZC24
	Ø 31	XUZC31
	Ø 39	XUZC39
	Ø 80	XUZC80
	50 x 50	XUZC50

- Reflector sold separately
- ▲ Emitter and receiver are sold individually

Mounting Brackets		
	Stainless Steel	Plastic
For		
XUB...	XUZA118	XUZA218
XUM...	XUZA50	-
XUK...	XUZA51	-
XUX...	XUZX2000	-

Mounting Devices		
Bracket with ball joint for sensors and reflector XUZC50		
	For	
	XUB...	XUZB2003
	XUM...	XUZM2003
	XUK...	XUZK2003
	XUX...	XUZX2003



XUC



XUK



XUX

3.9' / 1.2 m (adjustable)	3.28' / 1 m	3.28' / 1 m	6.8' / 2.1 m
29' / 9 m	16' / 5 m	13' / 4 m	36.1' / 11 m
–	29' / 9 m	23' / 7 m	46' / 14 m
196' / 60 m	98' / 30 m	65' / 20 m	131' / 40 m
direct: (Mounting holes 30 / 38 / 40 / 50 / 74) with M5 screws	direct: (40 x 40) with M4 screws		direct: (Mounting holes 30 / 38 / 40 / 50 / 74) with M5 screws
P / 95 x 45 x 44	P / 18 x 50 x 50		P / 91 x 30 x 70
✦	✦		✦

Degree of protection (conforming to IEC 60 529): IP67 (XUK: IP65) / Output state indication and power on LED (⊗): yes

2 meter cable	M12 connector	2 meter cable	M12 connector	screw terminals, M16 gland	M12 connector
		XUK2AKSNL2T	XUK2AKSNM12T	XUX0AKSAT16T	XUX0AKSAM12T
XUC8AKSNL2	XUC8AKSAM12	XUK5APANL2	XUK5APANM12	XUX5APANT16	XUX5APANM12
XUC8AKSNL2	XUC8AKSAM12	XUK5APBNL2	XUK5APBNM12	XUX5APBNT16	XUX5APBNM12
XUC9AKSAL2	XUC9AKSAM12	XUK9APANL2	XUK9APANM12	XUX9APANT16	XUX9APANM12
XUC9AKSAL2	XUC9AKSAM12	XUK9APBNL2	XUK9APBNM12	XUX9APBNT16	XUX9APBNM12
–	–	XUK1APANL2	XUK1APANM12	XUX1APANT16	XUX1APANM12
–	–	XUK1APBNL2	XUK1APBNM12	XUX1APBNT16	XUX1APBNM12
XUC2AKSAL2	XUCZAKSAM12	XUK2APANL2R	XUK2APANM12R	XUX2APANT16R	XUX2APANM12R
XUC2AKSAL2	XUCZAKSAM12	XUK2APBNL2R	XUK2APBNM12R	XUX2APBNT16R	XUX2APBNM12R
10...38	10...38	10...30	10...30	10...36	10...36
500	500	250	250	250	250

Overload and short-circuit protection: YES / Output state LED (⊗): yes / Power on LED (⊗): yes

Example: XUB1APANL2 becomes XUB1ANANL2

–	–	pre-cabled, L = 2 m	–	screw terminals, M16 gland	–
–	–	XUK2ARCNL2T	–	XUX0ARCTT16T	–
XUC8ARCTL2	XUC8ARCTU78	XUK5ARCNL2	–	XUX5ARCNT16	–
XUC9ARCTL2	XUC9ARCTU78	XUK9ARCNL2	–	XUX9ARCNT16	–
–	–	XUK1ARCNL2	–	XUX1ARCNT16	–
XUC2ARCTL2	XUCZARCTU78	XUK2ARCNL2R	–	XUX2ARCNT16R	–
20	–	20	–	20	–
⊗ / ★	–	⊗ / ★	–	⊗ / ★	–



Connector innovation

New, innovative connector that is universal, simple and fast.

For all Telemecanique brand sensors with Snap-C compatible M12 connectors (pointed pins):

- cabling to the required length without using a screwdriver or soldering iron.
- ready in just a few seconds, no stripping required.

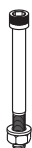
Mounting Devices continued

Protective housing with ball joint



For	
XUM...	XUZM2004
XUK...	XUZK2004
XUX...	XUZX2004

M12 rod for ball joint






XUZ2001

Bracket for M12 rod

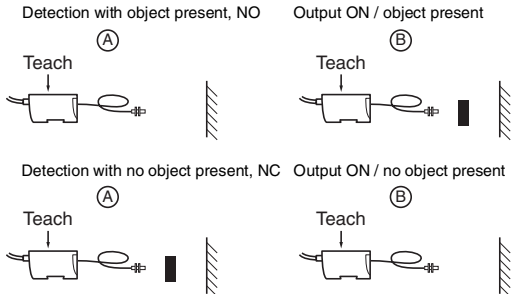


XUZ2003

Suitable plug-in female connectors, including pre-wired versions

Length 5 m without LED			
	Elbowed	Straight	Snap-C
M8	XSZCS152	XSZCS142	–
M12	XSZCD112Y	XSZCD102Y	XZCC12FDM40V

Osiris Photoelectric Sensors _ Fiber Optics, Amplifier



System	For plastic cables	For plastic cables
Max. Usable Sensing Distance	See Cables	See Cables
Mounting (mm)	DIN rail or direct on 25 mm mounting holes with M3 screws	DIN rail or direct on 25 mm mounting holes with M3 screws
Dimensions (mm) H x W x L	40 x 10 x 65	40 x 10 x 65
Enclosure: P (plastic)	P	P
Sensitivity adjustment	via teach mode	via teach mode
Alignment LEDs	✦	✦ and 4-digit display
Temperature range (°C)	- 14 to 131 °F (-10 to + 55 °C)	- 14 to 131 °F (-10 to + 55 °C)
Degree of protection (conforming to IEC 60 529)	IP65 for 1mm Ø cable / IP64 for 0.5mm Ø cable	IP65 for 1mm Ø cable / IP64 for 0.5mm Ø cable

Sensors for DC applications (solid state output: transistor)

Connection: pre-cabled, PvR (2 m)		
Amplifier references	3-wire PNP programmable NO / NC 3-wire NPN programmable NO / NC	XUDA1PSML2 XUDA1NSML2
Connection: M8 connector		
Amplifier references	3-wire PNP programmable NO / NC 3-wire NPN programmable NO / NC	XUDA1PSMM8 XUDA1NSMM8
Supply voltage limits min / max (V) including ripple	10...30	10...30
Switching capacity (mA) main output	100	100
Alarm output (switching capacity mA)	-	50
Short-circuit protection	yes	yes
LED output state indication (✦)	✦	✦
Switching frequency (Hz)	1000	1000 (standard mode) 5000 (fast mode - sensing distance reduced by 1/2)
Programmable timer	-	40 ms on beam break
Anti-interference	-	standard mode

Accessories

Pre-wired plug-in female connectors suitable for use with amplifier XUD●●●M8



90°, without LED fig. 1	length 5 m
Straight, without LED fig. 2	XSZCS152
	XSZCS142

For plastic fiber optic cables, Thru-beam system		
Lenses		
	For increasing sensing distance (pair)	XUFZ01
	With 90° mirror (pair)	XUFZ02
Mounting brackets with lens (set of 2)		
	Front screw mounting for fiber optic cables XUFZ920	XUFZ04

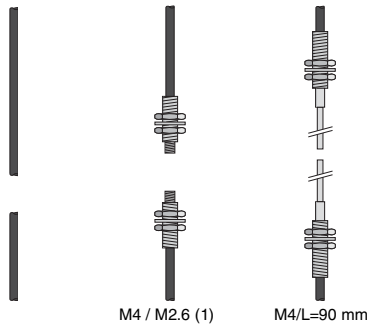
For plastic fiber optic cables, all systems		
Cable trimmer		
	For trimming cable to length (supplied with all plastic fiber optic cables)	XUFZ11
Protective sheath, metallic		
	Length 1 m for plastic cables with threaded tips	
	For M4 thread	XUFZ210
	For M6 thread	XUFZ310

Plastic Fiber Optic Cables (length 2 m)

(1)
Models suitable for use with XUFZ01 and XUFZ02

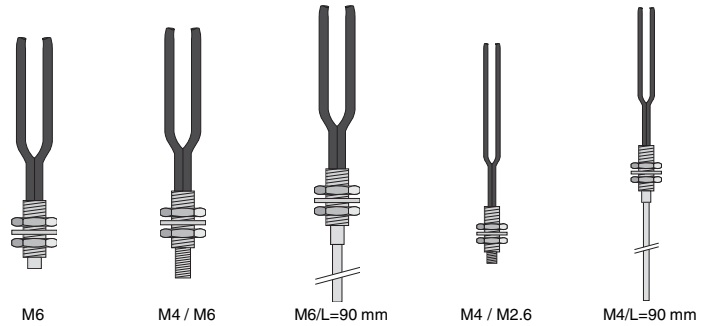
(2)
With XUFZ04 mounting bracket lens

(3)
Depending on length and lens mounting bracket



M4 / M2.6 (1) M4/L=90 mm

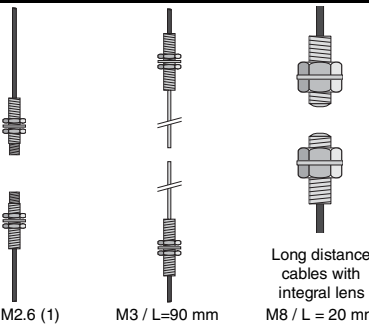
System	Thru-beam		
Sensing distance	25cm to 90cm (3)	20cm or 150cm (1)	18cm
Cable cross-section			
Cable Ø (mm)	Ø 1	Ø 1	Ø 1
Sheath Ø	Ø 2.2	Ø 2.2	Ø 2.2
Temperature range °F (°C)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)
References	XUFZ920	XUFN12301	XUFN12311
Mounting	(2)	M4 x 0.7	M4 x 0.7



M6 M4 / M6 M6/L=90 mm M4 / M2.6 M4/L=90 mm

System	Diffuse				
Sensing distance	70mm	70mm	70mm	30mm	18mm
Cable cross-section					
Cable Ø (mm)	Ø 1	Ø 1+16 Ø 0.265	Ø 1	Ø 0.5 + 4 Ø 0.23	Ø 0.5
Sheath Ø	Ø 2.2 x 2	Ø 2.2 x 2	Ø 2.2 x 2	Ø 1 x 2	Ø 1 x 2
Temperature range °F (°C)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)
References	XUFN05321	XUFN05323	XUFN05331	XUFN02323	XUFN01331
Mounting	M6 x 0.75	M6 x 0.75	M6 x 0.75	M4 x 0.7	M4 x 0.7

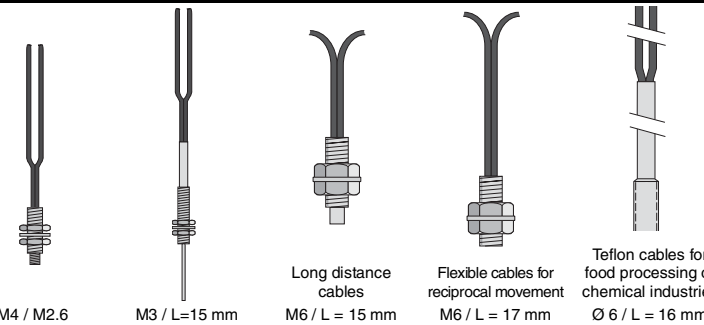
(1)
Models suitable for use with XUFZ01 and XUFZ02



M3 / M2.6 (1) M3 / L=90 mm M8 / L = 20 mm

System	Thru-beam		
Sensing distance	5cm or 40cm (1)	5cm	150cm
Cable cross-section			
Cable Ø (mm)	Ø 0.5	Ø 0.5	Ø 1
Sheath Ø	Ø 1	Ø 1	Ø 2.2
Temperature range °F (°C)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)
References	XUFN35301	XUFN35311	XUFN2L01L2
Mounting	M3 x 0.5	M3 x 0.5	M8 x 1.25

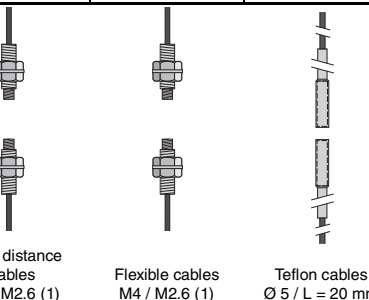
Long distance cables with integral lens



M4 / M2.6 M3 / L=15 mm M6 / L = 15 mm M6 / L = 17 mm Teflon cables for food processing or chemical industries Ø 6 / L = 16 mm

System	Diffuse				
Sensing distance	18mm	6mm	95mm	55mm	70mm
Cable cross-section					
Cable Ø (mm)	Ø 0.5	Ø 0.265	Ø 1.5	Ø 0.265 x 16	Ø 1
Sheath Ø	Ø 1 x 2	Ø 1 x 2	Ø 2.2 x 2	Ø 2.2 x 2	Ø 2.2 x 2
Temperature range °F (°C)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)
References	XUFN01321	XUFN04331	XUFN5P01L2	XUFN5S01L2	XUFN5T01L2
Mounting	M4 x 0.7	M3 x 0.5	M6 x 0.75	M6 x 0.75	by clip supplied

(1)
Models suitable for use with XUFZ01 and XUFZ02



Long distance cables M4 / M2.6 (1) Flexible cables M4 / M2.6 (1) Teflon cables Ø 5 / L = 20 mm

System	Thru-beam		
Sensing distance	30cm or 200cm (1)	10cm or 75cm (1)	100cm
Cable cross-section			
Cable Ø (mm)	Ø 1.5	Ø 0.265 x 16	Ø 1
Sheath Ø	Ø 2.2	Ø 2.2	Ø 2.2
Temperature range °F (°C)	-13...140 (-25...60)	-13...140 (-25...60)	-13...140 (-25...60)
References	XUFN2P01L2	XUFN2S01L2	XUFN2T01L2
Mounting	M2.6 x 0.45/M4 x 0.7	M2.6 x 0.45/M4 x 0.7	by clip supplied

Focused diffuse for full color sensor XURC4

System	10mm		20mm		30mm
Cable cross-section					
Cable Ø (mm)	Transmitter Ø 1	Receiver Ø 1.5	Transmitter Ø 1.5	Receiver Ø 1.5	Transmitter and Receiver Ø 1.5
Sheath Ø	Ø 2.2 x 2		Ø 2.2 x 2		Ø 2.2 x 2
Temperature range °F (°C)	-14...131 (-10...55)		-14...131 (-10...55)		-14...131 (-10...55)
References	XUFN5L01L2		XUFN5L02L2		XUFN5L03L2
Mounting	2 elongated holes Ø 3.2 x 6.7 for M3 screws / 9.8 mm center				

Osiris Photoelectric Sensors _ Application Specific: Packaging



	Transparent material detection		Color mark reader		UV sensor
	Retroreflective ■	Retroreflective (with teach mode) (with 50 x 50 reflector) ■	Diffuse (manual)	Diffuse (with teach mode)	Diffuse (manual)
Max. Sensing Distance	1.1 m / 3.6' (1)	1.5 m / 4.9'	9 mm / .35" (2)	9 mm / .35" (2)	20 mm / .79"
Mounting (mm)	M18 x 1	direct: holes 40	direct: 21 x 28, M5 screws	direct: 21 x 28, M5 screws	M18 x 1
Enclosure M (metal) P (plastic)	P	P	M	M	M
Sensitivity adjustment potentiometer		with teach mode button		with teach mode button	
Alignment LED's ✦	-	✦	✦	✦	✦
Temperature range °F (°C)	14...131 (-10...55)	-13...131 (-25...55)	14...131 (-10...55)	14...131 (-10...55)	-13...131 (-25...55)
Degree of protection (conforming to IEC 60 529)	IP67	IP65	IP67	IP67	IP67
Sensors for DC applications (solid state output: transistor)					
Connection: pre-cabled, PVC (2 m) 					
Dimensions (mm) Ø x L or H x W x L	Ø 18 x 55	50 x 18 x 50	-	-	-
Transmitter/Receiver	3-wire PNP light switching	-	-	-	-
	3-wire PNP dark switching	-	-	-	-
	3-wire NPN light switching	-	-	-	-
	3-wire NPN dark switching	-	-	-	-
Transmitter/Receiver	3-wire PNP light/dark prog. switching	XUBH01353	-	-	-
	3-wire NPN light/dark prog. switching	XUBJ01353	-	-	-
Transmitter/Receiver	3-wire PNP/NPN light/dark prog. switching	-	XUKT1KSML2	-	-
Connection: M12 connector 					
Dimensions (mm) Ø x L or H x W x L	Ø 18 x 68	50 x 18 x 80	100 x 30 x 62.5	96 x 31 x 64	Ø 18 x 95
Transmitter/Receiver	3-wire PNP light switching	-	-	-	XU5M18U1D
	3-wire PNP dark switching	-	-	-	-
	3-wire NPN light switching	-	-	-	-
	3-wire NPN dark switching	-	-	-	-
Transmitter/Receiver	3-wire PNP light/dark prog. switching	XUBH01353D	-	-	-
	3-wire NPN light/dark prog. switching	XUBJ01353D	-	-	-
Transmitter/Receiver	3-wire PNP/NPN light/dark prog. switching	-	XUKT1KSMM12	XURK0955D	XURK1KSMM12
Supply voltage limits min/max (V) including ripple	10...30	10...30	10...30	10...30	10...30
Switching capacity, max (mA)	100	100	200	200	100
Short-circuit protection (✦)/ LED output state indication (✧)	✦ / ✧	✦ / ✧	✦ / ✧	✦ / ✧	✦ / ✧
Switching frequency (Hz)	500	1500	10,000	10,000	1000

(1) with 50 x 50 mm reflector; 0.6 m with 24 x 21 reflector (2) 0.007 m with XURZ02, 0.018 m with XURZ01

Accessories

Reflectors	(mm)	
	Ø 16	XUZC16
	Ø 21	XUZC21
	24 x 21	XUZC24
	Ø 31	XUZC31
	Ø 39	XUZC39
	Ø 80	XUZC80
	50 x 50	XUZC50

■ Reflector sold separately

Plug-in female connectors, including pre-wired versions		
Length 5 m without LED		
	Elbowed	Straight
M8	XSZCS152	XSZCS142
M12	XSZCD112Y	XSZCD102Y

Lenses for color mark or UV detection	
Lens for doubling the sensing distance	Ring for fixed focusing
XURZ01	XURZ02



UV sensor

Full color

Diffuse

Transparent label detection

Liquid detection

Diffuse (with teach mode)	Diffuse (with integral amplifier)	Thru-beam or Diffuse (3) (with integral amplifier)	Adjustable background suppression	Thru-beam infra-red	Thru-beam infra-red
9 mm / .35" (2)	40-60 mm / 1.6-2.3"	5-25 mm / .2-1" (3)	1 m / 3.3'	2 mm / .07"	20 cm / 7.8"
direct: holes 28, M5 screws	direct: holes 68x42, M5 screws	on rail, holes 16	direct: holes 40	direct: holes 18	direct: holes 20
M	M	M	P	M	P
with teach mode button	with teach mode button	with teach mode button		with teach mode button	
◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖
14...131 (-10...55)	14...131 (-10...55)	14...131 (-10...55)	-13...131 (-25...55)	31...131 (0...55)	32...104 (0...40)
IP67	IP67	IP65	IP65	IP65	IP65
-	80 x 30 x 57	82 x 25 x 44	50 x 18 x 50	-	47 x 13 x 33
-	XURC3PPML2	XURC4PPML2	-	-	-
-	-	-	-	-	-
-	XURC3NPML2	XURC4NPML2	-	-	-
-	-	-	-	-	-
-	-	-	-	-	XUMW1KSNL2
-	-	-	XUK8AKSNL2	-	-
96 x 31 x 64	-	-	50 x 18 x 80	97 x 20 x 26	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
XURU1KSMM12	-	-	XUK8AKSNM12	XUVK0252S (M8)	-
10...30	10...30	10...30	10...30	10...30	10...30
200	100	100	100	100	100
◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖
2000	1200	1200	250	10,000	1000

(3) Depends on fiber optic selected, see table below.

Fiber optic cable suitable for use with "full color" sensor XURC4...

	Guide type	System	Reference	Sensing dist.
	Focused		Diffuse	XUFN5L01L2
XUFN5L02L2				20 mm
XUFN5L03L2				30 mm
Standard		Diffuse	XUFN05321	5 mm
		Thru-beam (color detection by transparency)	XUFN12301 + XUFZ01	250 mm

Osiris Photoelectric Sensors _ Application Specific: Assembly, Material Handling



Sturdy and compact

Window frames for dynamic detection

Fork design with integral amplifier for indexing

	Assembly		Material Handling
	Diffuse (1)	Thru-beam (2)	
Max. Sensing Distance	0.07 m / 2.7"	0.12 / 0.18 / 0.25 m	30 mm / 11.8"
Mounting (mm)	M8 x 1	direct: 222.5 with M5 screws	centers 47
Enclosure M (metal) P (plastic)	P	P	M
Sensitivity adjustment potentiometer	-	↻	-
Alignment LED's ✦	-	✦	-
Temperature range °F (°C)	-13...131 (-25...55)	32...140 (0...60)	23...131 (-5...55)
Degree of protection (conforming to IEC 60 529)	IP67	IP65	IP54
Sensors for DC applications (solid state output: transistor)			
Connection: pre-cabled (2 m)			
Dimensions (mm) Ø x L or H x W x L	Ø 8 x 40		-
Transmitter/Receiver	3-wire PNP	NO	XUAH0515
	3-wire PNP	NC	XUAH0525
	3-wire NPN	NO	XUAJ0515
	3-wire NPN	NC	XUAJ0525
Transmitter/Receiver	3-wire PNP	NO / NC	-
	3-wire NPN	NO / NC	-
Connection: M8 (S suffix) or M12 connector			
Dimensions (mm) Ø x L or H x W x L	Ø 8 x 66		205 / 265 / 335 x 25 x 230
Transmitter/Receiver	3-wire PNP	NO	XUAH0515S
	3-wire PNP	NC	XUAH0525S
	3-wire NPN	NO	XUAJ0515S
	3-wire NPN	NC	XUAJ0525S
Transmitter/Receiver	3-wire PNP	NO / NC	-
	3-wire NPN	NO / NC	-
Transmitter/Receiver 3-wire PNP/NPN programmable output ON or OFF	internal size 200 x 120 m	-	XUVF120M12
	internal size 200 x 180 m	-	XUVF180M12
	internal size 200 x 250 m	-	XUVF250M12
Connection: screw clamp terminals			
Dimensions (mm) Ø x L or H x W x L	-		-
Receiver or T/R	3-wire PNP	-	-
Supply voltage limits min/max (V) including ripple			
	10...30	18...30	19...38
Switching capacity, max (mA)			
	100	400	150
Short-circuit protection (✦) / LED output state indication (✧)			
	✦ / ✧	✦ / ✧	✦ / ✧
Switching frequency (Hz)			
	700	500	1000

(1) Thru-beam also available
 (2) Dynamic Fork models available
 (3) With 4...20 mA analogue output

Application Specific: Material Handling, Food Processing



Analog output for position control



Very long sensing distance or accurate sensing





Large excess gain to resist accumulation of dirt



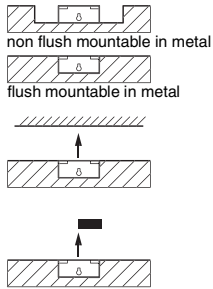
Stainless steel version for resistance to harsh agents



Material Handling		
Diffuse	Diffuse	Thru-beam or Diffuse
0.20...0.80 m / 7.8"...2.6'	100 m / 328'	70 m / 230'
centers 30 - 1/2" NPT cable gland	M18 x 1	M18 x 1
P	P	M
-		
◆ / ✱	◆	◆
-13...140 (-25...60)	14...113 (-10...45)	-13...131 (-25...55)
IP67	IP67	IP67
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	Ø 18 x 76	M18 x 95
-	-	XU2M18AP20D (3)
-	-	-
-	-	-
-	-	-
-	XU2P18PP340DL	-
-	XU2P18NP340DL	-
-	-	-
-	-	-
-	-	-
-	-	-
86 x 27 x 83	-	-
XUJK803538	-	-
20...30	10...30	10...30
max:20 min:4	100	100
◆ / ✱	◆ / ✱	◆ / ✱
10,000	500	30

Food Processing	
Adjustable background	Thru-beam infra-red
3 m / 9.8'	0.15 m / 5.9"
M18 x 1	M18 x 1
M (stainless steel)	M (stainless steel)
-	-
-	-
-13...131 (-25...55)	-13...131 (-25...55)
IP67	IP67
-	-
-	-
-	-
-	-
-	-
XU9N18PP341	XU5N18PP341
XU9N18NP341	XU5N18NP341
-	-
-	-
-	-
-	-
-	-
XU9N18PP341D	XU5N18PP341D
XU9N18NP341D	XU5N18NP341D
-	-
-	-
-	-
-	-
-	-
-	-
10...30	10...30
100	100
◆ / ✱	◆ / ✱
500	500

Osiprox Inductive Proximity Sensors



Osiconcept®
Offering simplicity through Innovation

A single product that adapts to all metal environments

Accurate position detection via teach mode.



	Type E (26 x 26)	Type C (40 x 40)	Type D (80 x 80)	Ø 12
Nominal Sensing Distance Sn	15 mm	25 mm	60 mm	5 mm
Usable sensing dist. S (mm) shielded/non-shielded	0...10 / 0...15	0...15 / 0...25	0...40 / 0...60	0...3.4 / 0...5
Precision adjustment range (mm) shielded/non-shielded	5...10 / 5...15	8...15 / 8...25	20...40 / 20...60	1.7...3.4 / 1.7...5
Mounting in metal	shielded or non-shielded via Osiconcept teach mode			
Enclosure M (metal) P (plastic)	P	P	P	M
Temperature range °F (°C)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
Degree of protection (conforming to IEC 60 529)	pre-cabled: IP68 (with connector: IP67)			

Sensors for DC applications --- (3-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L			26 x 26 x 13	40 x 40 x 15	80 x 80 x 26	M12 x 54	
3-wire		PNP	NO	XS8E1A1PAL2	XS8C1A1PAL2	XS8D1A1PAL2	-
		PNP	NC	XS8E1A1PBL2	XS8C1A1PBL2	XS8D1A1PBL2	-
		NPN	NO	XS8E1A1NAL2	XS8C1A1NAL2	XS8D1A1NAL2	-
		NPN	NC	XS8E1A1NBL2	XS8C1A1NBL2	XS8D1A1NBL2	-

Connection: M8 or M12 connector

Dimensions (mm) Ø x L or H x W x L			26 x 26 x 13	40 x 40 x 15	80 x 80 x 26	M12 x 54	
3-wire		PNP	NO	XS8E1A1PAM8	XS8C1A1PAM8	XS8D1A1PAM12	XS612B2PAL01M12 (2)
		PNP	NC	XS8E1A1PBM8	XS8C1A1PBM8	XS8D1A1PBM12	XS612B2PBL01M12 (2)
		NPN	NO	XS8E1A1NAM8	XS8C1A1NAM8	XS8D1A1NAM12	XS612B2NAL01M12 (2)
		NPN	NC	XS8E1A1NBM8	XS8C1A1NBM8	XS8D1A1NBM12	XS612B2NBL01M12 (2)
Supply voltage limits min/max (V) including ripple			10...36	10...36	10...36	10...36	
Switching capacity, max (mA)			100	200	200	200	
Short-circuit protection (◆)			◆	◆	◆	◆	
LED output state indication (✱) and power on LED (★)			✱ / ★	✱ / ★	✱ / ★	✱ / ★	
Voltage drop, closed state (V) at I nominal			≤ 2	≤ 2	≤ 2	≤ 2	
Switching frequency (Hz)			1000	1000	100	1000	

Sensors for AC or DC applications ~ / --- (2-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L			26 x 26 x 13	40 x 40 x 15	80 x 80 x 26	-
2-wire	AC/DC without short-circuit protection (1)	NO	XS8E1A1MAL2	XS8C1A1MAL2	XS8D1A1MAL2	-
		NC	XS8E1A1MBL2	XS8C1A1MBL2	XS8D1A1MBL2	-

Connection: 1/2" 20 UNF connector

Dimensions (mm) Ø x L or H x W x L			26 x 26 x 13	40 x 40 x 15	80 x 80 x 26	-
2-wire	AC/DC without short-circuit protection (1)	NO	XS8E1A1MAL01U20	XS8C1A1MAL01U20	XS8D1A1MAU20	-
		NC	XS8E1A1MBL01U20	XS8C1A1MBL01U20	XS8D1A1MBU20	-
Supply voltage limits min/max (V) including ripple on DC			20...264	20...264	20...264	-
Switching capacity, max (mA)			200	260	260	-
LED output state indication (✱) and power on LED (★)			✱ / ★	✱ / ★	✱ / ★	-
Residual current, open state (mA)			≤ 1.5	≤ 1.5	≤ 1.5	-
Voltage drop, closed state (V) at I nominal			≤ 5.5	≤ 5.5	≤ 5.5	-
Switching frequency (Hz) AC / DC			50 / 1000	50 / 1000	50 / 1000	-

(1) It is necessary to place a 0.8 A quick-blow fuse in series with the load.

Accessories

For flat sensors, forms E, C and D				Mounting bracket with indexing pin for cylindrical sensors				
			straight	90°	Adaptor plate for block type sensors XSE / XSC / XSD		M8	XSZB108
		Type E	XSZBE00	XSZBE90	XSZBE10		M12	XSZB112
		Type C	XSZBC00	XSZBC90	XSZBC10		M18	XSZB118
		Type D	XSZBD00	-	XSZBD10		M30	XSZB130



Osiconcept®



Osiconcept®

Ø 18	Ø 30
10 mm	18 mm
0...7 / 0...10	0...12 / 0...18
3.5 ... 7 / 3.5...10	6...12 / 6...18
shielded or non-shielded via Osiconcept teach mode	
M	M
- 13...158 (-25...70)	- 13...158 (-25...70)
pre-cabled: IP68 (with connector: IP67)	

M18 x 67	M30 x 71
-	-
-	-
-	-
-	-

XS618B2PAL01M12 (2)	XS630B2PAL01M12 (2)
XS618B2PBL01M12 (2)	XS630B2PBL01M12 (2)
XS618B2NAL01M12 (2)	XS630B2NAL01M12 (2)
XS618B2NBL01M12 (2)	XS630B2NBL01M12 (2)
10...36	10...36
200	200
◆	◆
*/★	*/★
≤ 2	≤ 2
1000	1000

-	-
-	-
-	-

-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-



Ø 8	Ø 12	Ø 18	Ø 30
2.5 mm	4 mm	8 mm	15 mm
0...2	0...3.2	0...6.4	0...12
-	-	-	-
shielded	shielded	shielded	shielded
M	M	M	M
- 13...176 (-25...70)	- 13...176 (-25...70)	- 13...176 (-25...70)	- 13...176 (-25...70)
pre-cabled: IP68 (with connector: IP67)			

M8 x 50	M12 x 50	M18 x 60	M30 x 60
XS608B1PAL2	XS612B1PAL2	XS618B1PAL2	XS630B1PAL2
XS608B1PBL2	XS612B1PBL2	XS618B1PBL2	XS630B1PBL2
XS608B1NAL2	XS612B1NAL2	XS618B1NAL2	XS630B1NAL2
XS608B1NBL2	XS612B1NBL2	XS618B1NBL2	XS630B1NBL2

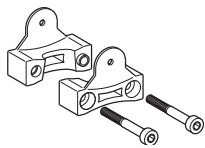
XS608B1PAM12	XS612B1PAM12	XS618B1PAM12	XS630B1PAM12
XS608B1PBM12	XS612B1PBM12	XS618B1PBM12	XS630B1PBM12
XS608B1NAM12	XS612B1NAM12	XS618B1NAM12	XS630B1NAM12
XS608B1NBM12	XS612B1NBM12	XS618B1NBM12	XS630B1NBM12
10...36	10...36	10...36	10...36
200	200	300	300
◆	◆	◆	◆
*/-	*/-	*/-	*/-
≤ 2	≤ 2	≤ 2	≤ 2
2500	2500	1000	500

-	M12 x 50	M18 x 60	M30 x 60
-	XS612B1MAL2	XS618B1MAL2	XS630B1MAL2
-	XS612B1MBL2	XS618B1MBL2	XS630B1MBL2

-	XS612B1MAU20	XS618B1MAU20	XS630B1MAU20
-	XS612B1MBU20	XS618B1MBU20	XS630B1MBU20
-	20...264	20...264	20...264
-	200	200	200
-	*/-	*/-	*/-
-	≤ 1.5	≤ 1.5	≤ 1.5
-	≤ 5.5	≤ 5.5	≤ 5.5
-	25 / 4000	25 / 3000	25 / 3000

(2) Pigtail cable (L = 0.15 m) with end mounted remote control and M12 connector

For Osiconcept XS6 remote control



XSZBPM12

Plug-in female connectors, including pre-wired versions

	elbowed	straight	Snap-C
length 5 m w/o LED			
M8	XSZCS112	XSZCS101	-
M12	XSZCD112Y	XSZCD102Y	XSCC12FDM40V
U20	XSZCA111Y	XSZCA101Y	-

Osiprox Inductive Proximity Sensors _ Standard



flush mountable in metal



	Type J (8 x 22)	Type F (15 x 32)	Type E (26 x 26)	Type C (40 x 40)
Nominal Sensing Distance Sn	2.5 mm	5 mm	10 mm	15 mm
Usable sensing distance (mm)	0...2	0...4	0...8	0...12
For flush mounting in metal	shielded	shielded	shielded	shielded
Enclosure M (metal) P (plastic)	P	P	P	P
Temperature range °F (°C)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
Degree of protection (conforming to IEC 60 529)	pre-cabled: IP68 (with connector: IP67)			

Sensors for DC applications --- (3-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L	8 x 8 x 22	8 x 15 x 32	26 x 26 x 13	40 x 40 x 15	
3-wire	PNP NO	XS7J1A1PAL2	XS7F1A1PAL2	XS7E1A1PAL2	XS7C1A1PAL2
	PNP NC	XS7J1A1PBL2	XS7F1A1PBL2	XS7E1A1PBL2	XS7C1A1PBL2
	NPN NO	XS7J1A1NAL2	XS7F1A1NAL2	XS7E1A1NAL2	XS7C1A1NAL2
	NPN NC	XS7J1A1NBL2	XS7F1A1NBL2	XS7E1A1NBL2	XS7C1A1NBL2

Connection: M8 (1) or M12 connector

3-wire	PNP NO	XS7J1A1PAL01M8 (2)	XS7F1A1PAL01M8 (2)	XS7E1A1PAM8	XS7C1A1PAM8
	PNP NC	XS7J1A1PBL01M8 (2)	XS7F1A1PBL01M8 (2)	XS7E1A1PBM8	XS7C1A1PBM8
	NPN NO	XS7J1A1NAL01M8 (2)	XS7F1A1NAL01M8 (2)	XS7E1A1NAM8	XS7C1A1NAM8
	NPN NC	XS7J1A1NBL01M8 (2)	XS7F1A1NBL01M8 (2)	XS7E1A1NBM8	XS7C1A1NBM8
Supply voltage limits min/max (V) including ripple	10...36	10...36	10...36	10...36	
Switching capacity, max (mA)	100	100	100	100	
Overload and Short-circuit protection (◆) / LED output state indication (✱)	◆ / ✱	◆ / ✱	◆ / ✱	◆ / ✱	
Voltage drop, closed state (V) at I nominal	≤ 2	≤ 2	≤ 2	≤ 2	
Switching frequency (Hz)	2000	2000	1000	1000	

Sensors for AC or DC applications ~ / --- (2-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L	8 x 8 x 22	8 x 15 x 32	26 x 26 x 13	40 x 40 x 15	
2-wire non-polarized	NO	XS7J1A1DAL2	XS7F1A1DAL2	XS7E1A1DAL2	XS7C1A1DAL2
	NC	XS7J1A1DBL2	XS7F1A1DBL2	XS7E1A1DBL2	XS7C1A1DBL2
2-wire non-polarized	NO	XS7J1A1DAL01M8 (2)	XS7F1A1DAL01M8 (2)	XS7E1A1DAM8	XS7C1A1DAM8
	NC	XS7J1A1DBL01M8 (2)	XS7F1A1DBL01M8 (2)	XS7E1A1DBM8	XS7C1A1DBM8
Supply voltage limits min/max (V) including ripple on DC	10...36	10...36	10...36	10...36	
Switching capacity, max (mA)	100	100	100	100	
Overload and Short-circuit protection (◆) / LED output state indication (✱)	◆ / ✱	◆ / ✱	◆ / ✱	◆ / ✱	
Residual current, open state (mA)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	
Voltage drop, closed state (V) at I nominal	≤ 4	≤ 4	≤ 4	≤ 4	
Switching frequency (Hz) AC / DC	4000	5000	1000	1000	

(1) M8 not Snap-C® compatible

(2) Pigtail cable (L = 0.15 m) with M8 connector




Accessories

For flat sensors, forms J, F, E, C and D		straight	90°	Adaptor plate for block type sensors XSE / XSC / XSD	Mounting bracket with indexing pin for cylindrical sensors		
	Type J	XSZBJ00	XSZBJ90	-		M8	XSZB108
	Type F	XSZBF00	XSZBF90	-		M12	XSZB112
	Type E	XSZBE00	XSZBE90	XSZBE10		M18	XSZB118
	Type C	XSZBC00	XSZBC90	XSZBC10		M30	XSZB130
	Type D	XSZBD00	-	XSZBD10			

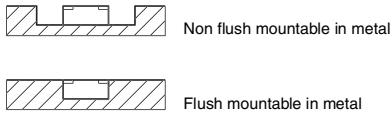


Type D (80 x 80)	
40 mm	
0...32	
shielded	
P	
- 13...158 (- 25...70)	
pre-cabled: IP68 (with connector: IP67)	
80 x 80 x 26	
XS7D1A1PAL2	
XS7D1A1PBL2	
XS7D1A1NAL2	
XS7D1A1NBL2	
XS7D1A1PAM12	
XS7D1A1PBM12	
XS7D1A1NAM12	
XS7D1A1NBM12	
10...36	
100	
◆ / ✖	
≤ 2	
100	
80 x 80 x 26	
XS7D1A1DAL2	
XS7D1A1DBL2	
XS7D1A1DAM12	
XS7D1A1DBM12	
10...36	
100	
◆ / ✖	
≤ 0.5	
≤ 4	
100	

Cylindrical Ø 8		Cylindrical Ø 12		Cylindrical Ø 18		Cylindrical Ø 30	
1.5 mm	2 mm	5 mm	10 mm				
0...1.2	0...1.6	0...4	0...8				
shielded	shielded	shielded	shielded				
M	M	M	M				
- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)				
pre-cabled: IP68 (with connector: IP67)							
M8 x 33	M12 x 33	M18 x 36.5	M30 x 40.6				
XS508B1PAL2	XS512B1PAL2	XS518B1PAL2	XS530B1PAL2				
XS508B1PBL2	XS512B1PBL2	XS518B1PBL2	XS530B1PBL2				
XS508B1NAL2	XS512B1NAL2	XS518B1NAL2	XS530B1NAL2				
XS508B1NBL2	XS512B1NBL2	XS518B1NBL2	XS530B1NBL2				
XS508B1PAM8	XS512B1PAM12	XS518B1PAM12	XS530B1PAM12				
XS508B1PBM8	XS512B1PBM12	XS518B1PBM12	XS530B1PBM12				
XS508B1NAM8	XS512B1NAM12	XS518B1NAM12	XS530B1NAM12				
XS508B1NBM8	XS512B1NBM12	XS518B1NBM12	XS530B1NBM12				
10...58	10...58	10...58	10...58				
200	200	200	200				
◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖				
≤ 2	≤ 2	≤ 2	≤ 2				
5000	5000	2000	1000				
M8 x 50	M12 x 50	M18 x 52.5	M30 x 50				
XS508B1DAL2	XS512B1DAL2	XS518B1DAL2	XS530B1DAL2				
XS508B1DBL2	XS512B1DBL2	XS518B1DBL2	XS530B1DBL2				
XS508B1DAM12	XS512B1DAM12	XS518B1DAM12	XS530B1DAM12				
XS508B1DBM12	XS512B1DBM12	XS518B1DBM12	XS530B1DBM12				
10...36	10...36	10...36	10...36				
200	200	200	200				
◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖				
≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5				
≤ 4	≤ 4	≤ 4	≤ 4				
4000	4000	3000	2000				

Plug-in female connectors, including pre-wired versions			
length 5 m w/o LED	 elbowed	 straight	 Snap-C
M8	XSZCS112	XSZCS101	-
M12	XSZCD112Y	XSZCD102Y	XSCC12FDM40V
U20	XSZCA111Y	XSZCA101Y	-

Osiprox Inductive Proximity Sensors _ Application Specific: Plastic cylindrical (Food processing industry)



	Ø 8	Ø 12	Ø 18	Ø 30
Nominal Sensing Distance Sn	2.5 mm	4 mm	8 mm	15 mm
Usable sensing distance (mm)	0...2	0...3.2	0...6.4	0...12
For flush mounting in metal	non-shielded	non-shielded	non-shielded	non-shielded
Enclosure M (metal) P (plastic)	P	P	P	P
Temperature range °F (°C)	- 13...176 (- 25...80)	- 13...176 (- 25...80)	- 13...176 (- 25...80)	- 13...176 (- 25...80)
Degree of protection (conforming to IEC 60 529)	pre-cabled: IP68 (with connector: IP67)			

Sensors for DC applications --- (3-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L		M8 x 33	M12 x 33	M18 x 33.5	M30 x 40.5	
3-wire	PNP	NO	XS4P08PA340	XS4P12PA340	XS4P18PA340	XS4P30PA340
	PNP	NC	XS4P08PB340	XS4P12PB340	XS4P18PB340	XS4P30PB340
	NPN	NO	XS4P08NA340	XS4P12NA340	XS4P18NA340	XS4P30NA340
	NPN	NC	XS4P08NB340	XS4P12NB340	XS4P18NB340	XS4P30NB340
	4...20 mA output	metal	-	-	-	-
	plastic	-	-	-	-	

Connection: M8 (S) or M12 (D) connector

3-wire	PNP	NO	XS4P08PA340S	XS4P12PA340D	XS4P18PA340D	XS4P30PA340D
	PNP	NC	XS4P08PB340S	XS4P12PB340D	XS4P18PB340D	XS4P30PB340D
	NPN	NO	XS4P08NA340S	XS4P12NA340D	XS4P18NA340D	XS4P30NA340D
	NPN	NC	XS4P08NB340S	XS4P12NB340D	XS4P18NB340D	XS4P30NB340D
	0...10 V output		-	-	-	-
4...20 mA output		-	-	-	-	
Supply voltage limits min/max (V) including ripple		10...38	10...38	10...38	10...38	
Switching capacity, max (mA)		200	200	200	200	
Short-circuit protection (◆) / LED output state indication (✱)		◆ / ✱	◆ / ✱	◆ / ✱	◆ / ✱	
Linearity error		-	-	-	-	
Voltage drop, closed state (V) at I nominal		≤ 2	≤ 2	≤ 2	≤ 2	
Switching frequency (Hz)		5000	5000	2000	1000	
Operating frequency (Hz)		-	-	-	-	

Sensors for AC or DC applications ~ / --- (2-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L		M8 x 50	M12 x 50	M18 x 60	M30 x 60	
2-wire	without short-circuit protection (1)	NO	XS4P08MA230	XS4P12MA230	XS4P18MA230	XS4P30MA230
		NC	XS4P08MB230	XS4P12MB230	XS4P18MB230	XS4P30MB230

Connection: U20 (K) connector

2-wire	without short-circuit protection (1)	NO	XS4P08MA230K	XS4P12MA230K	XS4P18MA230K	XS4P30MA230K
		NC	XS4P08MB230K	XS4P12MB230K	XS4P18MB230K	XS4P30MB230K
Supply voltage limits min/max (V) including ripple on DC		20...264	20...264	20...264	20...264	
Switching capacity, max (mA)		100	200	300 AC / 200 DC	300 AC / 200 DC	
LED output state indication (✱)		✱	✱	✱	✱	
Residual current, open state (mA)		≤ 0.6	≤ 0.6	≤ 0.6	≤ 0.6	
Voltage drop, closed state (V) at I nominal		≤ 5.5	≤ 5.5	≤ 5.5	≤ 5.5	
Switching frequency (Hz) AC / DC		25 AC / 3000 DC	25 AC / 3000 DC	25 AC / 3000 DC	25 AC / 3000 DC	

(1) It is necessary to place a 0.4 A quick-blow fuse in series with the load

Accessories




For flat sensors, forms J, F, E, C and D		straight	90°	Adaptor plate for block type sensors XSE / XSC / XSD	Mounting bracket with indexing pin for cylindrical sensors		
	Type J	XSZBJ00	XSZBJ90	-		M8	XSZB108
	Type F	XSZBF00	XSZBF90	-		M12	XSZB112
	Type E	XSZBE00	XSZBE90	XSZBE10		M18	XSZB118
	Type C	XSZBC00	XSZBC90	XSZBC10		M30	XSZB130
	Type D	XSZBD00	-	XSZBD10			

Application Specific: Analog (Position control)

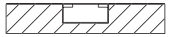


Type F (8 x 32)	Type E (26 x 26)	Type C (40 x 40)	Type D (80 x 80)	Ø 12	Ø 18	Ø 30
5 mm	10 mm	15 mm	40 mm	M: 2 mm / P: 4 mm	M: 5 mm / P: 8 mm	M: 10 mm / P: 15 mm
1...4	1...10	2...15	5...40	M: 0.2...2 / P: 0.4...4	M: 0.5...5 / P: 0.8...8	M: 1...10 / P: 1.5...15
shielded	shielded	shielded	shielded	shielded / non-shielded	shielded / non-shielded	shielded / non-shielded
P	P	P	P	M or P	M or P	M or P
- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
pre-cabled: IP68 (with connector: IP67)						
8 x 15 x 32	26 x 26 x 13	40 x 40 x 15	80 x 80 x 36	Ø 12 x 50	Ø 18 x 50	Ø 30 x 52.5
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	XS1M12AB120	XS1M18AB120	XS1M30AB120
XS9F111A2L2	XS9E111A2L2	XS9C111A2L2	XS9D111A2L2	XS4P12AB120	XS4P18AB120	XS4P30AB120
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
XS9F111A1L01M8 (2)	XS9E111A1L01M12 (2)	XS9C111A1L01M12 (2)	XS9D111A1M12	-	-	-
XS9F111A2L01M8 (2)	XS9E111A2L01M12 (2)	XS9C111A2L01M12 (2)	XS9D111A2M12	-	-	-
10...36	10...36	10...36	10...36	10...38	10...38	10...38
-	-	-	-	-	-	-
5%	5%	5%	5%	4%	4%	4%
-	-	-	-	-	-	-
-	-	-	-	-	-	-
2000	1000	1000	100	1500	500	300
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

(2) Pigtail cable (L = 0.15 m) with molded end connector

Plug-in female connectors, including pre-wired versions				
length 5 m w/o LED	 elbowed	 straight	 Snap-C	
	M8 (or S)	XSZCS112	XSZCS101	-
	M12 (or D)	XSZCD112Y	XSZCD102Y	XSCC12FDM40V
	U20 (or K)	XSZCA111Y	XSZCA101Y	-

Osiprox Inductive Proximity Sensors _ Application Specific: Miniature cylindrical (Assembly), Speed control



Flush mountable in metal



		Miniature cylindrical			Speed control
		Ø 4	M5	Ø 6.5	Type E (26 x 26)
Nominal Sensing Distance Sn		1 mm	1 mm	1.5 mm	10 mm
Usable sensing distance (mm)		0...0.8	0...0.8	0...1.2	0...8
For flush mounting in metal		shielded	shielded	shielded	shielded
Enclosure M (metal) P (plastic)		M	M	M	P
Adjustment means		-	-	-	teach mode
Temperature range °F (°C)		- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
Degree of protection (conforming to IEC 60 529)		IP67	IP67	IP67	IP67
Dimensions (mm) Ø x L or H x W x L		Ø 4 x 29	M5 x 29	M6.5 x 33	26 x 26 x 13
Max. speed of passing target (impulses/min)		-	-	-	48000
Sensing range (impulses/min)		-	-	-	60...6000
Sensors for DC applications --- (3-wire)					
Connection: pre-cabled PvR (2 m)					
3-wire	PNP	NO	XS1L04PA310	XS1N05PA310	XS1L06PA340
	PNP	NC	slow version	-	-
			fast version	-	-
NPN	NO	XS1L04NA310	XS1N05NA310	XS1L06NA340	
Connection: M8 or M12 connector					
3-wire	PNP	NO	XS1L04PA310S	XS1N05PA311S	XS1L06PA340S
	PNP	NC	-	-	-
	NPN	NO	XS1L04NA310S	XS1N05NA311S	XS1L06NA340S
3-wire	NPN	NC	-	-	-
					XS9E11RPBL01M12 (3)
Connection: M12 connector					
4-wire	PNP / NPN	NO / NC	programmable	-	-
Supply voltage limits min/max (V) including ripple		5...30	5...30	10...38	10...36
Switching capacity, max (mA)		100	100	200	100
Short-circuit protection (◆) / LED output state indication (✱) / Output supply (▲)		◆ / ✱ / -	◆ / ✱ / -	◆ / ✱ / -	◆ / ✱ / ▲
Voltage drop, closed state (V) at I nominal		≤ 2	≤ 2	≤ 2	≤ 2
Switching frequency (Hz)		5000	5000	5000	-
Sensors for AC or DC applications ~ / --- (2-wire)					
Connection: pre-cabled PvR (2 m)					
2-wire	AC	NO	-	-	-
		NC	-	-	-
	AC / DC without short-circuit protection (1)	NC	slow version	-	-
fast version			-	-	-
Supply voltage limits min/max (V) including ripple on DC		-	-	-	20...264
Switching capacity, max (mA)		-	-	-	5...200
LED output state indication (✱) / Output supply (▲)		- / -	- / -	- / -	✱ / ▲
Residual current, open state (mA)		-	-	-	≤ 1.5
Voltage drop, closed state (V) at I nominal		-	-	-	≤ 5.5
Switching frequency (Hz)		-	-	-	-

(1) It is necessary to place a quick-blow fuse in series with the load

(2) 6...150 and 6000 impulses / min for XSAV11373 and XSAV11801 (slow version) and 120...3000 and 48000 impulses / min for XSAV12373 and XSAV12801 (fast version)

Accessories

For flat sensors XS7				
		straight		90°
		For XS7C	XSZBC00	XSZBC90
		For XS7E	XSZBE00	XSZBE90

Mounting bracket with indexing pin for cylindrical sensors				
	M4	XSZB104	M12	XSZB112
	M4	XSZB105	M18	XSZB118
	M6.5	XSZB165	M30	XSZB130
	M8	XSZB108		

Application Specific: Speed control, Ferrous / Non-ferrous, Ultrasonic



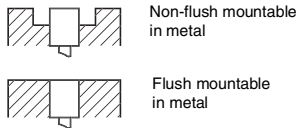
Speed control		Ferrous / Non-ferrous		Ultrasonic (Detection of any object or material)		
Type C (40 x 40)	Ø 30	Ø 18	Ø 30	M 12	M 18	M 30
15 mm	10 mm	5 mm	10 mm	51 mm	152 mm	1 m
0...12	0...8	0...4	0...8	6.4...51	25.4...152	51...991
shielded	shielded	shielded	shielded	-	-	-
P	M	M	M	P	P	P
teach mode		-	-	-	-	-
- 13...158 (- 25...70)	- 13...158 (- 25...70)	32...122 (0...50)	32...122 (0...50)	- 4...149 (- 20...65)	32...122 (0...50)	32...122 (0...50)
IP67	IP67	pre-cabled: IP68 (with connector: IP67)		IP67	IP67	IP67
40 x 40 x 15	M30 x 81	M18 x 70	M30 x 60	M12 x 50	M18 x 65	M30 x 85
48000	6000...48000 (2)	-	-	-	-	-
60...6000	6...150 / 120...3000 (2)	-	-	-	-	-
-	-	-	-	-	-	-
-	XSAV11373	-	-	-	-	-
-	XSAV12373	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
XS9C11RPBL01M12 (3)	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	M12 remote, L = 0.8 m		-	-	-
-	-	XS1M18KPM40D	XS1M30KPM40LD	XX512A1KAM8	XX518A1KAM12	XX630A1KAM12
10...36	10...58	10...38	10...38	10...28	10...28	10...28
200	200	200	200	100	100	100
◆ / ✖ / ▲	◆ / ✖ / -	◆ / ✖ / -	◆ / ✖ / -	◆ / ✖ / -	◆ / - / -	◆ / ✖ / -
≤ 2	≤ 2	≤ 2.6	≤ 2.6	≤ 1	≤ 1	≤ 1
-	-	1000	1000	500	500	200
-	-	-	-	-	-	-
XS9C11RMBL01U20 (4)	-	-	-	-	-	-
-	XSAV11801	-	-	-	-	-
-	XSAV12801	-	-	-	-	-
20...264	20...264	-	-	-	-	-
5...300 AC / 5...200 DC	5...350 AC / 5...200 DC	-	-	-	-	-
✖ / ▲	✖ / -	- / -	- / -	-	-	-
≤ 1.5	≤ 1.5	-	-	-	-	-
≤ 5.5	≤ 5.7	-	-	-	-	-
-	-	-	-	-	-	-

(3) Pigtail cable (L = 0.15 m) with end mounted remote control and M12 connector

(4) Pigtail cable (L = 0.15 m) with end mounted remote control and 1/2-20UNF connector

For remote control XS9...R		Plug-in female connectors, including pre-wired versions		
 XSZBPM12	length 5 m w/o LED	 elbowed	 straight	 Snap-C
	M8	XSZCS112	XSZCS101	-
	M12	XSZCD112Y	XSZCD102Y	XSCC12FDM40V
	U20	XSZCA111Y	XSZCA101Y	-

Osiprox Capacitive _ Detection of all materials



	M12	M18	M30
Nominal Sensing Distance S_n	2 mm	5 mm	10 mm
Usable sensing distance (mm)	0...1.44	0...3.6	0...7.2
For flush mounting in metal	flush mountable	flush mountable	flush mountable
Enclosure M (metal) P (plastic)	M	M	M
Temperature range °F (°C)	32...122 (0...50)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
Degree of protection (conforming to IEC 60 529)	IP67	IP67	IP67

Sensors for DC applications --- (3-wire)

Connection: pre-cabled PVC (2 m)

Dimensions (mm) $\varnothing \times L$ or H x W x D		M12 x 50	M18 x 60	M30 x 60
3-wire	PNP	NO	XT1M12PA372	XT1M18PA372
		NC	XT1M12PB372	XT1M18PB372
	NPN	NO	XT1M12NA372	XT1M18NA372

Connection: screw clamp terminals

3-wire	PNP	NO + NO complementary functions	-	-	-
	NPN	NO + NO complementary functions	-	-	-
Supply voltage limits min/max (V) including ripple		10...38	10...38	10...38	
Switching capacity, max (mA)		300	300	300	
Short-circuit protection (♦) / LED output state indication (✱)		♦ / ✱	♦ / ✱	♦ / ✱	
Voltage drop, closed state (V) at I nominal		≤ 2	≤ 2	≤ 2	
Switching frequency (Hz)		100	100	100	

Sensors for AC or DC applications $\sim / \text{---}$ (2-wire)

Connection: pre-cabled PVC (2 m)

Dimensions (mm) $\varnothing \times L$ or H x W x D		-	M18 x 60	M30 x 60
2-wire AC	NO	-	XT1M18FA262	XT1M30FA262
	NC	-	XT1M18FB262	XT1M30FB262

Connection: screw clamp terminals

2-wire AC	programmable NO or NC	-	-	-
Supply voltage limits min/max (V) including ripple on DC		-	20...264	20...264
Switching capacity, max (mA)		-	300	300
LED output state indication (✱)		-	✱	✱
Residual current, open state (mA)		-	≤ 1.5 / 120 V	≤ 1.5 / 120 V
Voltage drop, closed state (V) at I nominal		-	≤ 5.5	≤ 5.5
Switching frequency (Hz)		-	25	25

Accessories

Mounting bracket with indexing pin for cylindrical sensors



M12	XSZB112
M18	XSZB118
M30	XSZB130
M32	XUZB32

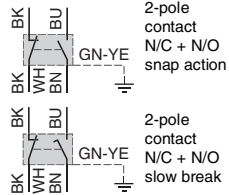


Ø 32	40 x 40	M18	M30	Ø 32
15 mm	15 mm	8 mm	15 mm	210 mm
0...10.8	0...10.8	0...5.8	0...10.8	0...14.4
flush mountable	non-flush mountable	non-flush mountable	non-flush mountable	non-flush mountable
M	P	P	P	P
- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
IP63	IP67	IP67	IP67	IP63
-	117 x 40 x 40	M18 x 60	M30 x 60	-
-	-	XT4P18PA372	XT4P30PA372	-
-	-	-	-	-
-	-	XT4P18NA372	XT4P30NA372	-
-	XT7C40PC440	-	-	-
-	XT7C40NC440	-	-	-
-	10...58	10...38	10...38	-
-	200	300	300	-
-	◆ / ✖	◆ / ✖	◆ / ✖	-
-	≤ 2	≤ 2	≤ 2	-
-	100	100	100	-
Ø 32 x 80	117 x 40 x 40	M18 x 60	M30 x 60	Ø 32 x 80
XT1L32FA262	-	XT4P18FA262	XT4P30FA262	XT4L32FA262
XT1L32FB262	-	-	XT4P30FB262	XT4L32FB262
-	XT7C40FP262	-	-	-
20...264	20...264	20...264	20...264	90...250
250	350	300	300	250
✖	✖	✖	✖	✖
≤ 7	≤ 1.5	≤ 1.5 / 120 V	≤ 1.5 / 120 V	≤ 7
≤ 9	≤ 5.5	≤ 5.5	≤ 5.5	≤ 9
10	25	25	25	10

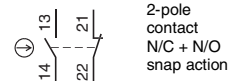
Osiswitch Limit switches_ Complete switches (adaptable sub-assemblies, see pages 26-27)

Osiconcept®
Offering simplicity through innovation

XCMD, XCMN



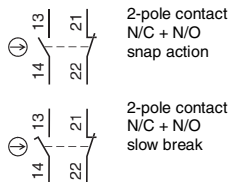
XCKT



Miniature type XCMD metal, precabled

Type of operator	metal end plunger	steel roller plunger	plastic roller lever	variable length plastic roller lever	M12 head metal end plunger	
Actuation speed (in m/s)	0.5	0.5	1.5	1.5	0.5	
Switches conforming to standard IEC 60 947-5-1 section 3	⊕	⊕	⊕	⊕	⊕	
Degree of protection conforming to IEC 60 529	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	
Rated operational characteristics	~ AC 15; B 300 (Ue = 240 V, Ie = 1.5 A) / --- DC 13; R 300 (Ue = 250 V, Ie = 0.1 A)					
Cable entry	pre-cabled, adjustable direction, length = 1 m (other lengths available on request)					
Mounting holes (mm)	20	20	20	20	20	
Body dimensions (mm) W x D x H	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	
Complete switch	2-pole, N/C + N/O snap action	XCMD2110L1	XCMD2102L1	XCMD2115L1	XCMD2145L1	XCMD21F0L1
	2-pole, N/C + N/O break before make, slow break	XCMD2510L1	XCMD2502L1	XCMD2515L1	XCMD2545L1	XCMD25F0L1

XCKP



Compact type XCKD metal and XCKP plastic conforming to standard EN 50047

Type of operator	metal end plunger	steel roller plunger	plastic roller lever horizontal actuation	M18 head metal end plunger	M18 head steel roller plunger	
Actuation speed (in m/s)	0.5	0.5	1	0.5	0.5	
Switches conforming to standard IEC 60 947-5-1 section 3	⊕	⊕	⊕	⊕	⊕	
Degree of protection conforming to IEC 60 529	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	
Rated operational characteristics	~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / --- DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)					
Cable entry	1 tapped entry for 1/2" NPT cable gland					
Mounting holes (mm)	20	20	20	M18 x 1	M18 x 1	
Body dimensions (mm) W x D x H	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	
Metal products						
Complete switch	2-pole, N/C + N/O snap action	XCKD2110N12	XCKD2102N12	XCKD2121N12	XCKD21H0N12	XCKD21H2N12
	2-pole, N/C + N/O break before make, slow break	XCKD2510N12	XCKD2502N12	XCKD2521N12	XCKD25H0N12	XCKD25H2N12
Plastic, double insulated products						
Complete switch	2-pole, N/C + N/O snap action	XCKP2110N12	XCKP2102N12	XCKP2121N12	XCKP21H0N12	XCKP21H2N12
	2-pole, N/C + N/O break before make, slow break	XCKP2510N12	XCKP2502N12	XCKP2521N12	XCKP25H0N12	XCKP25H2N12

⊕ Indicates positive opening contacts



Type XCKT compact, plastic, 2 cable entries

M12 head steel roller plunger	cat whisker	End plunger	metal end plunger	metal roller plunger	plastic roller lever	plastic roller lever, horizontal actuation	cat whisker
0.1	1	0.5	0.5	0.5	1.5	1	1
⊖	—	⊖	⊖	⊖	⊖	⊖	—
IP66 and IP67	IP66 and IP67	IP65	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67
~ AC 15; B 300 (Ue = 240 V, Ie = 1.5 A) / --- DC 13; R 300 (Ue = 250 V, Ie = 0.1 A)			~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / --- DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				
pre-cabled, adjustable direction, length = 1 m (other lengths available on request)		pre-cabled, length = 1 m	2 tapped entries for 1/2" NPT cable gland				
20	20	20	20 or 40	20 or 40	20 or 40	20 or 40	20 or 40
30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	60 x 30 x 61	60 x 30 x 61	60 x 30 x 61	60 x 30 x 61	60 x 30 x 61
XCMD21F2L1	XCMD2106L1	XCMN2110L1 (1)	XCKT2110N12	XCKT2102N12	XCKT2118N12	XCKT2121N12	XCKT2106N12
XCMD25F2L1	XCMD2506L1	—	—	—	—	—	—



With manual reset XCDR and XCDP

plastic roller lever	variable length plastic roller lever	rubber roller lever Ø 50 mm	cat whisker	metal end plunger	steel roller lever	plastic roller lever horizontal actuation	plastic roller lever vertical actuation	plastic roller lever
1.5	1.5	1.5	1	0.5	0.5	1	1	1.5
⊖	⊖	⊖	—	⊖	⊖	⊖	⊖	⊖
IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67
~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / --- DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / --- DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				
1 tapped entry for 1/2" NPT cable gland				1 tapped entry for 1/2" NPT cable gland				
20	20	20	20	20	20	20	20	20
30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 95	30 x 30 x 95	30 x 30 x 95	30 x 30 x 95	30 x 30 x 95
XCKD2118N12	XCKD2145N12	XCKD2139N12	XCKD2106N12	XCDR2110N12	XCDR2102N12	XCDR2121N12	XCDR2127N12	XCDR2118N12
XCKD2518N12	XCKD2545N12	XCKD2539N12	XCKD2506N12	XCDR2510N12	XCDR2502N12	XCDR2521N12	XCDR2527N12	XCDR2518N12
XCKP2118N12	XCKP2145N12	XCKP2139N12	XCKP2106N12	XCDR2110N12	XCDR2102N12	XCDR2121N12	XCDR2127N12	XCDR2118N12
XCKP2518N12	XCKP2545N12	XCKP2539N12	XCKP2506N12	XCDR2510N12	XCDR2502N12	XCDR2521N12	XCDR2527N12	XCDR2518N12

(1) XCMN switch is not modular

Osiswitch *Limit switches_ Adaptable sub-assemblies for miniature and compact switches*

Common heads for miniature and compact bodies

Metal plunger and multi-directional heads

Description	metal end plunger	metal end plunger with elastomer protective boot	steel roller plunger	retractable steel roller lever	plastic roller lever, horizontal actuation	plastic roller lever, vertical actuation
Reference	ZCE10	ZCE11	ZCE02	ZCE24 (2)	ZCE21	ZCE27

Metal rotary heads and levers

Description	rotary head without lever, spring return, for actuation from RH or LH side	plastic roller lever, track: 24/31 mm (ZCMD) 29/36 mm (ZCD/P/T)	steel roller lever, track: 24/31 mm (ZCMD) 29/36 mm (ZCD/P/T)	plastic roller lever, track: 16/39 mm (ZCMD) 21/44 mm (ZCD/P/T)	steel roller lever, track: 16/39 mm (ZCMD) 21/44 mm (ZCD/P/T)	plastic, roller lever, track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)
Reference	ZCE01	ZCY15 (2)	ZCY16 (2)	ZCY25 (2)	ZCY26 (2)	ZCY18 (1)

(1) Recommended for use with body ZCD... / ZCP... / ZCT...

(2) Recommended for use with body ZCMD...

Body/contact assemblies

Miniature

Type of contact						
Reference of metal body	ZCMD21	ZCMD39	ZCMD25	ZCMD37	ZCMD21C12	ZCMD21M12
Reference of plastic body	-	-	-	-	-	-

Connection of miniature body/contact assemblies

Specific pre-cabled connection components					Option: M12 pre-wired connector, L = 2 m	
L = 1 m	ZCMC21L1	ZCMC39L1	ZCMC25L1	ZCMC37L1		
L = 2 m	ZCMC21L2	ZCMC39L2	ZCMC25L2	ZCMC37L2	XSZCD1501Y	XSZCD101Y
L = 5 m	ZCMC21L5	ZCMC39L5	ZCMC25L5	ZCMC37L5		

M12 head metal plunger	M18 head metal plunger	M12 head steel roller plunger	M18 head steel roller plunger	spring lever	spring lever with plastic end	cat whisker
ZCEF0 (2)	ZCEH0 (1)	ZCEF2 (1)	ZCEH2 (1)	ZCE08	ZCE07	ZCE06
steel roller lever, for track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)	ceramic roller lever	variable length plastic roller lever	round, glass fiber rod lever Ø 3 mm L = 125 mm	metal spring lever	plastic roller lever Ø 50 mm	adjustable plastic roller lever Ø 50 mm
ZCY19 (1)	ZCY22	ZCY45	ZCY55	ZCY91	ZCY39	ZCY49

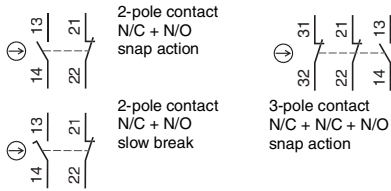
Compact							
2-pole N/C + N/O Snap action	3-pole N/C + N/C + N/O Snap action	2-pole N/C + N/O Slow break	3-pole N/C + N/C + N/O Slow break	2-pole N/C + N/O Snap action	2-pole N/C + N/O Snap action	2-pole N/C + N/O Snap action	2-pole N/C + N/O Slow break
ZCD21	ZCD39	ZCD25	ZCD37	ZCD21M12	-	-	-
ZCP21	ZCP39	ZCP25	ZCP37	-	ZCP21M12	ZCT21P16	ZCT25P16

Connection of compact body/contact assemblies

Interchangeable cable gland							Option: M12 pre-wired connector, L = 2 m			ZCT PG 11 cable gland versions: replace suffix P16 with G11 Example: ZCT21G16 becomes ZCT21G11 ZCT 1/2" NPT versions: replace suffix P16 with N12 (adaptor). Example: ZCT21P16 becomes ZCT21N12
	Description	Outlet for ISO M16 gland	Outlet for ISO M20 gland	Outlet for Pg 11 gland	Outlet for Pg 13.5 gland	Outlet for 1/2" gland		Outlet for PF 1/2" gland	5-pin	
Metal	ZCPEP16	ZCPEP20	ZCPEG11	ZCPEG13	ZCPEN12	ZCPEF12		XSZCD1501Y	XSZCD101Y	
Plastic	ZCDEP16	ZCDEP20	ZCDEG11	ZCDEG13	ZCDEN12	ZCDEF12				

Osiswitch *Limit switches_ Standard*

XCKJ, XCKS, XCKM



Type XCKJ metal, fixed body, conforming to standard EN 50041

Type of operator	metal end plunger	steel roller plunger	plastic roller lever	variable length plastic roller lever	round rod lever Ø 6 mm polyamide / L = 200 mm
Actuation speed (in m/s)	0.5	1	1.5	1.5	1.5
Degree of protection conforming to IEC 60 529	IP667	IP667	IP667	IP667	IP667
Rated operational characteristics	~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / = DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				
Cable entry (1)	1 tapped entry for 1/2" NPT cable gland				
Mounting holes (mm)	30 x 60	30 x 60	30 x 60	30 x 60	30 x 60
Body dimensions (mm) W x D x H	40 x 44 x 77	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	40 x 44 x 77
Complete switch	2-pole, N/C + N/O snap action	XCKJ161 (↻)	XCKJ167 (↻)	XCKJ10511 (↻)	XCKJ10541 (↻)
	2-pole, N/C + N/O break before make, slow break	XCKJ561 (↻)	XCKJ567 (↻)	XCKJ50511 (↻)	XCKJ50541 (↻)
Body	2-pole N/C + N/O snap action	ZCKJ1 (↻)	ZCKJ1 (↻)	ZCKJ1 (↻)	ZCKJ1 (↻)
	2-pole N/C + N/O break before make, slow break	ZCKJ5 (↻)	ZCKJ5 (↻)	ZCKJ5 (↻)	ZCKJ5 (↻)
	3-pole N/C + N/C + N/O snap action	ZCKJD39 (↻)	ZCKJD39 (↻)	ZCKJD39 (↻)	ZCKJD39 (↻)
Associated head (including operator)	ZCKE61 (↻)	ZCKE67 (↻)	ZCKO5 (↻)	ZCKE05 (↻)	ZCKE05 (↻)
Operating lever for rotary heads	-	-	ZCKY11 (↻)	ZCKY41 (↻)	ZCKY59 (↻)

↻ Indicates positive opening contacts

Osiconcept Photoelectric Sensors Substitution Guide

Current Offer	Osi Sensors	Current Offer	Osi Sensors	Current Offer	Osi Sensors
18 mm					
XU1B18NP340	XUB0ANSNL2 + XUZC50	XU2M18NP340D	XUB0BNSNM12 + XUB0BKSNM12T	XU5M18PP340D	XUB0BPSNM12
XU1B18NP340D	XUB0ANSNM12 + XUZC50	XU2M18NP340WD	XUB0BNSWM12 + XUB0BKSWM12T	XU5M18PP340L5	XUB0BPSNL5
XU1B18PP340	XUB0APSNL2 + XUZC50	XU2M18PP340	XUB0BPSNL2 + XUB0BKSNL2T	XU5M18PP340W	XUB0BPSWL2
XU1B18PP340D	XUB0APSNM12 + XUZC50	XU2M18PP340D	XUB0BPSNM12 + XUB0BKSNM12T	XU5M18PP340WD	XUB0BPSWM12
XU1N18NP340	XUB1BNANL2 + XUZC50	XU2M18PP340L10	XUB0BPSNL10 + XUB0BKSNL10T	XU5M18PP340WL5	XUB0BPSWL5
XU1N18NP340D	XUB1BNANM12 + XUZC50	XU2M18PP340L5	XUB0BPSNL5 + XUB0BKSNL5T	XU5N18NP340	XUB4BNANL2
XU1N18NP340W	XUB1BNANL2 + XUZC50	XU2M18PP340W	XUB0BPSWL2 + XUB0BKSWL2T	XU5N18NP340D	XUB4BNANL2
XU1N18NP340D	XUB1BNANM12 + XUZC50	XU2M18PP340WD	XUB0BPSWM12 + XUB0BKSWM12T	XU5N18NP340D	XUB4BNANM12
XU1N18NP340D	XUB1BNBNM12 + XUZC50	XU2M18PP340WL5	XUB0BNSWL5 + XUB0BKSWL5T	XU5N18NP340D	XUB4BNBNM12
XU1N18NP340L5	XUB1BNANL5 + XUZC50	XU2N18NP340	XUB2BANAL2R + XUB2BKSNL2T	XU5N18NP340L5	XUB4BNANL5
XU1N18NP340L5	XUB1BNBNL5 + XUZC50	XU2N18NP340D	XUB2BANL2R + XUB2BKSNL2T	XU5N18NP340L5	XUB4BNBNL5
XU1N18NP340T10	XUB1BNANL2T10 + XUZC50	XU2N18NP340D	XUB2BANANM12R + XUB2BKSNM12T	XU5N18NP340T10	XUB4BNANL2T10
XU1N18NP340T10	XUB1BNBNL2T10 + XUZC50	XU2N18NP340D	XUB2BANBNM12R + XUB2BKSNM12T	XU5N18NP340T10	XUB4BNBNL2T10
XU1N18NP340W	XUB1BNAWL2 + XUZC50	XU2N18NP340WD	XUB2BANAWM12R + XUB2BKAWM12T	XU5N18NP340W	XUB4BNAWL2
XU1N18NP340W	XUB1BNBWL2 + XUZC50	XU2N18NP340WD	XUB2BANBWM12R + XUB2BKAWM12T	XU5N18NP340W	XUB4BNBWL2
XU1N18NP340WD	XUB1BNAWM12 + XUZC50	XU2N18PP340	XUB2BPANL2R + XUB2BKSNL2T	XU5N18NP340WD	XUB4BNAWM12
XU1N18NP340WD	XUB1BNBWM12 + XUZC50	XU2N18PP340	XUB2BPANL2R + XUB2BKSNL2T	XU5N18NP340WD	XUB4BNBWM12
XU1N18PP340	XUB1BPANL2 + XUZC50	XU2N18PP340D	XUB2BPANM12R + XUB2BKSNM12T	XU5N18NP340WL5	XUB4BNAWL5
XU1N18PP340	XUB1BPBNL2 + XUZC50	XU2N18PP340D	XUB2BPBNM12R + XUB2BKSNM12T	XU5N18NP340WL5	XUB4BNBWL5
XU1N18PP340D	XUB1BPANM12 + XUZC50	XU2N18PP340L5	XUB2BPANL5R + XUB2BKSNL5T	XU5N18PP340	XUB4BPANL2
XU1N18PP340D	XUB1BPBNM12 + XUZC50	XU2N18PP340L5	XUB2BPBNL5R + XUB2BKSNL5T	XU5N18PP340D	XUB4BPANL2
XU1N18PP340L5	XUB1BPANL5 + XUZC50	XU2N18PP340W	XUB2BPANL2R + XUB2BKSWL2T	XU5N18PP340D	XUB4BPANM12
XU1N18PP340L5	XUB1BPBNL5 + XUZC50	XU2N18PP340W	XUB2BPBWL2R + XUB2BKSWL2T	XU5N18PP340D	XUB4BPBNM12
XU1N18PP340T10	XUB1BPANL2T10 + XUZC50	XU2N18PP340WD	XUB2BPAWM12R + XUB2BKAWM12T	XU5N18PP340L5	XUB4BPANL5
XU1N18PP340T10	XUB1BPBNL2T10 + XUZC50	XU2N18PP340WD	XUB2BPBWM12R + XUB2BKAWM12T	XU5N18PP340L5	XUB4BPBNL5
XU1N18PP340W	XUB1BPAWL2 + XUZC50	XU2N18PP340WL5	XUB2BPAWL5R + XUB2BKSWL5T	XU5N18PP340T10	XUB4BPANL2T10
XU1N18PP340W	XUB1BPBWL2 + XUZC50	XU2N18PP340WL5	XUB2BPBWL5R + XUB2BKSWL5T	XU5N18PP340T10	XUB4BPBNL2T10
XU1N18PP340WD	XUB1BPAWM12 + XUZC50	XU2P18NP340	XUB2ANANL2R + XUB2AKSNL2T	XU5N18PP340W	XUB4BPAWL2
XU1N18PP340WD	XUB1BPBWM12 + XUZC50	XU2P18NP340D	XUB2ANANM12R + XUB2AKSNM12T	XU5N18PP340W	XUB4BPBWL2
XU1N18PP340WL5	XUB1BPAWL5 + XUZC50	XU2P18NP340D	XUB2ANANM12R + XUB2AKSNM12T	XU5N18PP340WD	XUB4BPAWM12
XU1N18PP340WL5	XUB1BPBWL5 + XUZC50	XU2P18NP340D	XUB2ANBNM12R + XUB2AKSNM12T	XU5N18PP340WD	XUB4BPBWM12
XU1P18NP340	XUB1ANANL2 + XUZC50	XU2P18NP340W	XUB2ANAWL2R + XUB2AKSWL2T	XU5N18PP340WL5	XUB4BPAWL5
XU1P18NP340	XUB1ANBNL2 + XUZC50	XU2P18NP340W	XUB2ANBWL2R + XUB2AKSWL2T	XU5N18PP340WL5	XUB4BPBWL5
XU1P18NP340D	XUB1ANANM12 + XUZC50	XU2P18NP340WD	XUB2ANAWM12R + XUB2AKAWM12T	XU5P18NP340	XUB4ANANL2
XU1P18NP340D	XUB1ANBNM12 + XUZC50	XU2P18NP340WD	XUB2ANBWM12R + XUB2AKAWM12T	XU5P18NP340	XUB4ANBNL2
XU1P18NP340L5	XUB1ANANL5 + XUZC50	XU2P18PP340	XUB2APANL2R + XUB2AKSNL2T	XU5P18NP340D	XUB4ANANM12
XU1P18NP340L5	XUB1ANBNL5 + XUZC50	XU2P18PP340	XUB2APBNL2R + XUB2AKSNL2T	XU5P18NP340D	XUB4ANBNM12
XU1P18NP340W	XUB1ANAWL2 + XUZC50	XU2P18PP340D	XUB2APANM12R + XUB2AKSNM12T	18 mm Tubular	
XU1P18NP340W	XUB1ANBWL2 + XUZ C50	XU2P18PP340D	XUB2APBNM12R + XUB2AKSNM12T	XU5P18NP340L5	XUB4ANANL5
XU1P18NP340WD	XUB1ANAWM12 + XUZC50	XU2P18PP340L10	XUB2APANL10R + XUB2AKSNL10T	XU5P18NP340L5	XUB4ANBNL5
XU1P18NP340WD	XUB1ANBWM12 + XUZC50	XU2P18PP340L10	XUB2APBNL10R + XUB2AKSNL10T	XU5P18NP340W	XUB4ANAWL2
XU1P18PP340	XUB1APANL2 + XUZC50	XU2P18PP340L5	XUB2APANL5R + XUB2AKSNL5T	XU5P18NP340W	XUB4ANBWL2
XU1P18PP340	XUB1APBNL2 + XUZC50	XU2P18PP340L5	XUB2APBNL5R + XUB2AKSNL5T	XU5P18NP340WD	XUB4ANAWM12
XU1P18PP340D	XUB1APANM12 + XUZC50	XU2P18PP340W	XUB2APAWL2R + XUB2AKSWL2T	XU5P18NP340WD	XUB4ANBWM12
XU1P18PP340D	XUB1APBNM12 + XUZC50	XU2P18PP340W	XUB2APBWL2R + XUB2AKSWL2T	XU5P18PP340	XUB4APANL2
XU1P18PP340L5	XUB1APANL5 + XUZC50	XU2P18PP340WD	XUB2APAWM12R + XUB2AKAWM12T	XU5P18PP340	XUB4APBNL2
XU1P18PP340L5	XUB1APBNL5 + XUZC50	XU2P18PP340WD	XUB2APBWM12R + XUB2AKAWM12T	XU5P18PP340D	XUB4APANM12
XU1P18PP340W	XUB1APAWL2 + XUZC50	XU5B18NP340	XUB0ANSNL2	XU5P18PP340D	XUB4APBNM12
XU1P18PP340W	XUB1APBWL2 + XUZC50	XU5B18NP340D	XUB0ANSNM12	XU5P18PP340L10	XUB4APANL10
XU1P18PP340WD	XUB1APAWM12 + XUZC50	XU5B18PP340	XUB0APSNL2	XU5P18PP340L10	XUB4APBNL10
XU1P18PP340WD	XUB1APBWM12 + XUZC50	XU5B18PP340D	XUB0APSNM12	XU5P18PP340L5	XUB4APANL5
XU1P18PP340WL5	XUB1APAWL5 + XUZC50	XU5B18PP340L5	XUB0APSNL5	XU5P18PP340L5	XUB4APBNL5
XU1P18PP340WL5	XUB1APBWL5 + XUZC50	XU5M18NP340	XUB0BNSNL2	XU5P18PP340W	XUB4APAWL2
XU2B18NP340	XUB0ANSNL2 + XUB0AKSNL2T	XU5M18NP340D	XUB0BNSNM12	XU5P18PP340W	XUB4APBWL2
XU2B18NP340D	XUB0ANSNM12 + XUB0AKSNM12T	XU5M18NP340L5	XUB0BNSNL5	XU5P18PP340WD	XUB4APAWM12
XU2B18PP340	XUB0APSNL2 + XUB0AKSNL2T	XU5M18NP340W	XUB0BNSWL2	XU5P18PP340WD	XUB4APBWM12
XU2B18PP340D	XUB0APSNM12 + XUB0AKSNM12T	XU5M18NP340WL5	XUB0BNSWL5	XU5P18PP340WL5	XUB4APAWL5
XU2M18NP340	XUB0BNSNL2 + XUB0BKSNL2T	XU5M18PP340	XUB0BPSNL2	XU5P18PP340WL5	XUB4APBWL5

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Current Offer	Osi Sensors	Current Offer	Osi Sensors	Current Offer	Osi Sensors
XU8B18NP340	XUB0ANSNL2	XU9P18NP340W	XUB9ANAWL2 + XUZC50	XUJK06353D2	XUX0AKSAM12 + XUZX2000
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Compact 50 x 50		XULH083534DH7	XUK 2APBNM12R + XUZX2003	XULM0600L05	XUK2ARCNL5T + XUZX2003
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XUK1ARCTL2	XUK0ARCTL2 + XUZX2003 + XUZA50	XULH083534L05	XUK2APBNL5R + XUZX2003	XULM06031	XUK1ARCNL2 + XUZX2003
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XUK9AKSAL2	XUK0AKSAL2 + XUZX2003 + XUZA50	XULJ043539	XUK9ANANL2 + XUZX2003	XUMH073534L10	XUM0APSAL10 + XUZX2003
XUK9AKSAM12	XUK0AKSAM12 + XUZX2003 + XUZA50	Compact 50 x 50		XUMH103535	XUM0APSAL2 + XUZX2003
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Current Offer	Osi Sensors	Current Offer	Osi Sensors	Current Offer	Osi Sensors
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XUMJ103535	XUM0ANSAL2 + XUZM2003	XUMLH0854	XUM2APBNL2R + XUZM2003	XUMLJ0451	XUM1ANBNL2 + XUZM2003
XUMJ15353R	XUM0ANSAL2 + XUZM2003	XUMLH0854S	XUM2APANM8R + XUZM2003	XUMLJ0451S	XUM1ANANM8 + XUZM2003
XUMJ703535	XUM0ANSAL2 + XUZM2003	XUMLH0854S	XUM2APBNM8R + XUZM2003	XUMLJ0451S	XUM1ANBM8 + XUZM2003
XUMLH0259	XUM9APANL2 + XUZM2003	XUMLH1055	XUM6APANL2 + XUZM2003	XUMLJ0854	XUM2ANANL2R + XUZM2003
XUMLH0259	XUM9APBNL2 + XUZM2003	XUMLH1055	XUM6APBNL2 + XUZM2003	XUMLJ0854	XUM2ANBNL2R + XUZM2003
XUMLH0259S	XUM9APANM8 + XUZM2003	XUMLH1055S	XUM6APANM8 + XUZM2003	XUMLJ0854S	XUM2ANANM8R + XUZM2003
XUMLH0259S	XUM9APBNM8 + XUZM2003	XUMLH1055S	XUM6APBNM8 + XUZM2003	XUMLJ0854S	XUM2ANBNM8R + XUZM2003
XUMLH0451	XUM1APANL2 + XUZM2003	XUMLH4055	XUM5APANL2 + XUZM2003	XUMLJ1055	XUM6ANANL2 + XUZM2003
XUMLH0451	XUM1APBNL2 + XUZM2003	XUMLH4055	XUM5APBNL2 + XUZM2003	XUMLJ1055	XUM6ANBNL2 + XUZM2003
XUMLH0451L10	XUM1APANL10 + XUZM2003	XUMLH4055S	XUM5APANM8 + XUZM2003	XUMLJ1055S	XUM6ANANM8 + XUZM2003
XUMLH0451L10	XUM1APBNL10 + XUZM2003	XUMLH4055S	XUM5APBNM8 + XUZM2003	XUMLJ1055S	XUM6ANBNM8 + XUZM2003
XUMLH0451S	XUM1APANM8 + XUZM2003	XUMLH4055T10	XUM5APANL2T10 + XUZM2003	XUMLJ4055	XUM5ANANL2 + XUZM2003
XUMLH0451S	XUM1APBNM8 + XUZM2003	XUMLH4055T10	XUM5APBNL2T10 + XUZM2003	XUMLJ4055	XUM5ANBNL2 + XUZM2003
XUMLH0451T10	XUM1APANL2T10 + XUZM2003	XUMLJ0259	XUM9ANANL2 + XUZM2003	XUMLJ4055S	XUM5ANANM8 + XUZM2003
XUMLH0451T10	XUM1APBNL2T10 + XUZM2003	XUMLJ0259	XUM9ANBNL2 + XUZM2003	XUMLJ4055S	XUM5ANBNM8 + XUZM2003
XUMLH0803	XUM2AKSNL2T + XUZM2003	XUMLJ0259S	XUM9ANANM8 + XUZM2003		
XUMLH0803S	XUM2AKSNM8T + XUZM2003	XUMLJ0259S	XUM9ANBNM8 + XUZM2003		

Osiconcept Proximity Sensors_ Substitution Guide

Current Offer	Osi Sensors	Current Offer	Osi Sensors	Current Offer	Osi Sensors	Current Offer	Osi Sensors
8 mm Tubular ---		XS1N08NA340L2	XS508B1NAL10	XS2M08NC410	XS608B1NBL2	XS1M12DB210L1	XS512B1DBL5
XS1M08DA210	XS508B1DAL2	XS1N08NA340S	XS508B1NAM8	XS2M08NC410D	XS608B1NAM12	XS1M12KP340	XS512B1PAL2
XS1M08DA210D	XS508B1DAM12	XS1N08NA349	XS608B1NAL2	XS2M08NC410D	XS608B1NBM12	XS1M12KP340	XS512B1PBL2
XS1M08DA210L1	XS508B1DAL5	XS1N08NA349D	XS608B1NAM12	XS2M08PC410	XS608B1PAL2	XS1M12KP340	XS512B1NAL2
XS1M08DA210L2	XS508B1DAL10	XS1N08NA349L1	XS608B1NAL5	XS2M08PC410	XS608B1PBL2	XS1M12KP340	XS512B1NBL2
XS1M08DA210LD	XS508B1DAL08M12	XS1N08NA349S	XS608B1NAM12	XS2M08PC410D	XS608B1PAM12	XS1M12KP340D	XS512B1PAM8
XS1M08DB210	XS508B1DBL2	XS1N08NB340	XS508B1NBL2	XS2M08PC410D	XS608B1PBM12	XS1M12KP340D	XS512B1PBM8
XS1M08DB210D	XS508B1DBM12	XS1N08NB340D	XS508B1NBM8	XS2N08NA340	XS608B1NAL2	XS1M12KP340D	XS512B1NAM8
XS1M08DB210L1	XS508B1DBL5	XS1N08NB340S	XS508B1NBM8	XS2N08NA340D	XS608B1NAM8	XS1M12KP340D	XS512B1NBM8
XS1M08NA370	XS608B1NAL2	XS1N08NB349	XS608B1NBL2	XS2N08NA340L1	XS608B1NAL5	XS1M12KP340L1	XS512B1PAL5
XS1M08NA370D	XS608B1NAM12	XS1N08NB349D	XS608B1NAM12	XS2N08NA340S	XS608B1NAM8	XS1M12KP340L1	XS512B1PBL5
XS1M08NA370L1	XS608B1NAL5	XS1N08NB349S	XS608B1NBM12	XS2N08NB340	XS608B1NBL2	XS1M12KP340L1	XS512B1NAL5
XS1M08NB370	XS608B1NBL2	XS1N08PA340	XS508B1PAL2	XS2N08PA340	XS608B1PAL2	XS1M12KP340L1	XS512B1NBL5
XS1M08NB370D	XS608B1NBM12	XS1N08PA340D	XS508B1PAM8	XS2N08PA340D	XS608B1PAM8	XS1M12KP340L2	XS512B1PAL10
XS1M08NC410	XS508B1NAL2	XS1N08PA340L1	XS508B1PAL5	XS2N08PA340L1	XS608B1PAL5	XS1M12KP340L2	XS512B1PBL10
XS1M08NC410	XS508B1NBL2	XS1N08PA340L2	XS508B1PAL10	XS2N08PA340L2	XS608B1PAL10	XS1M12KP340L2	XS512B1NAL10
XS1M08NC410D	XS508B1NAM8	XS1N08PA340LD	XS508B1PAL08M12	XS2N08PA340S	XS608B1PAM8	XS1M12KP340L2	XS512B1NBL10
XS1M08NC410D	XS508B1NBM8	XS1N08PB340S	XS508B1PAM8	XS2N08PB340	XS608B1PBL2	XS1M12NA370	XS612B1NAL2
XS1M08PA370	XS608B1PAL2	XS1N08PB349	XS608B1PAL2	XS2N08PB340D	XS608B1PBM8	XS1M12NA370D	XS612B1NAM12
XS1M08PA370D	XS608B1PAM12	XS1N08PB349D	XS608B1PAM12	XS2N08PB340S	XS608B1PBM8	XS1M12NA370L1	XS612B1NAL5
XS1M08PA370L1	XS608B1PAL5	XS1N08PB349L1	XS608B1PAL5	XS3P08NA340	XS508B1NAL2	XS1M12NA370L2	XS612B1NAL10
XS1M08PA370L2	XS608B1PAL10	XS1N08PB349L2	XS608B1PAL10	XS3P08NA340D	XS508B1NAM8	XS1M12NA370S	XS612B1NAM12
XS1M08PA370LD	XS608B1PAL08M12	XS1N08PB349S	XS608B1PAM12	XS3P08NA370	XS608B1NAL2	XS1M12NB370	XS612B1NBL2
XS1M08PA370S	XS608B1PAM12	XS1N08PB340	XS508B1PBL2	XS3P08PA340	XS508B1PAL2	XS1M12NB370D	XS612B1NBM12
XS1M08PB370	XS608B1PBL2	XS1N08PB340D	XS508B1PBM8	XS3P08PA340D	XS508B1PAM12	XS1M12PA370	XS612B1PAL2
XS1M08PB370D	XS608B1PBM12	XS1N08PB340L1	XS508B1PBL5	XS3P08PA340L1	XS508B1PAL5	XS1M12PA370D	XS612B1PAM12
XS1M08PB370L1	XS608B1PBL5	XS1N08PB340S	XS508B1PBM8	XS3P08PA370	XS608B1PAL2	XS1M12PA370L1	XS612B1PAL5
XS1M08PB370L2	XS608B1PBL10	XS1N08PB349	XS608B1PBL2			XS1M12PA370L2	XS612B1PAL10
XS1M08PC410	XS508B1PAL2	XS1N08PB349D	XS608B1PBM12	12 mm Tubular ---		XS1M12PB370	XS612B1PBL2
XS1M08PC410	XS508B1PBL2	XS1N08PB349L1	XS608B1PBL5	XS1M12DA210	XS512B1DAL2	XS1M12PB370D	XS612B1PBM12
XS1M08PC410D	XS508B1PAM8	XS1N08PB349L2	XS608B1PBL10	XS1M12DA210L1	XS512B1DAM12	XS1M12PB370L1	XS612B1PBL5
XS1M08PC410D	XS508B1PBM8	XS1N08PB349S	XS608B1PBM12	XS1M12DA210L2	XS512B1DAL10	XS1N12NA340	XS512B1NAL2
XS1N08NA340D	XS508B1NAM8	XS2M08NA340	XS608B1NAL2	XS1M12DB210	XS512B1DBL2	XS1N12NA340D	XS512B1NAM12
XS1N08NA340L1	XS508B1NAL5	XS2M08NC410	XS608B1NAL2	XS1M12DB210D	XS512B1DBM12	XS1N12NA340L1	XS512B1NAL5

Osiconcept *Limit Switches_XCMD Modular Miniature*

Cross Reference from Previous XCMA/B to New XCMD

Old XCMA/B	New XCMD	Old XCMA/B	New XCMD	Old XCMA/B	New XCMD	Old XCMA/B	New XCMD
XCMA102	XCMD2102L1	XCMA110	XCMD2110L1	XCMA117	XCMD2117L1	XCMB515	XCMD2515L1
XCMA1022	XCMD2102L2	XCMA1102	XCMD2110L2	XCMA125	XCMD2125L1	XCMB516	XCMD2516L1
XCMA1023	XCMD2102L3	XCMA1103	XCMD2110L3	XCMB502	XCMD2502L1	XCMF102	XCMD21F2L1
XCMA1025	XCMD2102L5	XCMA1105	XCMD2110L5	XCMB5022	XCMD2502L2	XCMF1032	XCMD21F2L2
XCMA1026	XCMD2102L7	XCMA111	XCMD2111L1	XCMB5023	XCMD2502L3	XCMF110	XCMD21F0L1
XCMA1027	XCMD2102L7	XCMA115	XCMD2115L1	XCMB5024	XCMB2502L5	XCMF1102	XCMD21F0L2
XCMA1028	XCMD2102L10	XCMA1152	XCMD2115L2	XCMB5025	XCMD2502L5	XCMF1105	XCMD21F0L5
XCMA103	XCMD2103L1 ▲	XCMA1155	XCMD2115L5	XCMB503	XCMD2503L1	XCMB502	XCMD25F2L1
XCMA1032	XCMD2103L2	XCMA115	XCMD2115L1	XCMB510	XCMD2510L1	XCMB503	XCMD25F3L1
XCMA1033	XCMD2103L3	XCMA116	XCMD2116L1	XCMB5105	XCMD2510L5		
XCMA1037	XCMD2103L7	XCMA1163	XCMD2116L3	XCMB511	XCMD2511L1		

XCMD Components – Catalog Number Selection

XCMD Miniature Switch	XCMD Components				XCMD Miniature Switch	XCMD Components			
	Body with Contacts	Head	Lever	Corded Plug-in Base Only		Body with Contacts	Head	Lever	Corded Plug-in Base Only
XCMD2102L1	ZCMD21	ZCE02		ZCMC21L1	XCMD2117L1	ZCMD21	ZCE01	ZCY17	ZCMC21L1
XCMD2102L10	ZCMD21	ZCE02		ZCMC21L10	XCMD2125L1	ZCMD21	ZCE01	ZCY25	ZCMC21L1
XCMD2102L2	ZCMD21	ZCE02		ZCMC21L2	XCMD21F0L1	ZCMD21	ZCEF0		ZCMC21L1
XCMD2102L3	ZCMD21	ZCE02		ZCMC21L3	XCMD21F0L2	ZCMD21	ZCEF0		ZCMC21L2
XCMD2102L5	ZCMD21	ZCE02		ZCMC21L5	XCMD21F0L5	ZCMD21	ZCEF0		ZCMC21L5
XCMD2102L6	ZCMD21	ZCE02		ZCMC21L5	XCMD21F2L1	ZCMD21	ZCEF2		ZCMC21L1
XCMD2102L7	ZCMD21	ZCE02		ZCMC21L7	XCMD21F2L2	ZCMD21	ZCEF2		ZCMC21L2
XCMD2103L1 ▲	ZCMD21	ZCE02		ZCMC21L1	XCMD2502L1	ZCMD25	ZCE02		ZCMC25L1
XCMD2103L2	ZCMD21	ZCE02		ZCMC21L2	XCMD2502L1	ZCMD25	ZCE02		ZCMC25L1
XCMD2103L3	ZCMD21	ZCE02		ZCMC21L3	XCMD2502L2	ZCMD25	ZCE02		ZCMC25L2
XCMD2103L7	ZCMD21	ZCE02		ZCMC21L7	XCMD2502L3	ZCMD25	ZCE02		ZCMC25L3
XCMD2110L1	ZCMD21	ZCE10		ZCMC21L1	XCMD2502L5	ZCMD25	ZCE02		ZCMC25L5
XCMD2110L2	ZCMD21	ZCE10		ZCMC21L2	XCMD2503L1	ZCMD25	ZCE02		ZCMC25L1
XCMD2110L3	ZCMD21	ZCE10		ZCMC21L3	XCMD2510L1	ZCMD25	ZCE10		ZCMC25L1
XCMD2110L5	ZCMD21	ZCE10		ZCMC21L5	XCMD2510L5	ZCMD25	ZCE10		ZCMC25L5
XCMD2111L1	ZCMD21	ZCE11		ZCMC21L1	XCMD2511L1	ZCMD25	ZCE11		ZCMC25L1
XCMD2115L1	ZCMD21	ZCE01	ZCY15	ZCMC21L1	XCMD2515L1	ZCMD25	ZCE01	ZCY15	ZCMC25L1
XCMD2115L2	ZCMD21	ZCE01	ZCY15	ZCMC21L2	XCMD2516L1	ZCMD25	ZCE05	ZCY16	ZCMC25L1
XCMD2115L5	ZCMD21	ZCE01	ZCY15	ZCMC21L5	XCMD25F2L1	ZCMD25	ZCEF2		ZCMC25L1
XCMD2116L3	ZCMD21	ZCE01	ZCY16	ZCMC21L3	XCMD25F2L1	ZCMD25	ZCEF2		ZCMC25L1

▲ XCMD2103L● is not a catalog item. Use the standard XCMD2102L● and rotate the head to the cross roller position.

Osiconcept *Limit Switches_ XCKP, XCKD and XCKT Compact Modular*

XCKP, XCKD and XCKT Cross Reference from Old to New

Old Plastic	New Plastic	New Metal	Old Plastic	New Plastic	New Metal	Old Plastic	New Plastic
XCKP101	XCKP2101N12	XCKD2101N12	XCKP154	XCKP2154N12	XCKD2154N12	XCKT102	XCKT2102N12
XCKP102	XCKP2102N12	XCKD2102N12	XCKP155	XCKP2155N12	XCKD2155N12	XCKT106	XCKT2106N12
XCKP102CM	XCKP2102G11	XCKD2102G11	XCKP502	XCKP2502N12	XCKD2502N12	XCKT110	XCKT2110N12
XCKP106	XCKP2106N12	XCKD2106N12	XCKP506	XCKP2506N12	XCKD2506N12	XCKT111	XCKT2111N12
XCKP110	XCKP2110N12	XCKD2110N12	XCKP510	XCKP2510N12	XCKD2510N12	XCKT118	XCKT2118N12
XCKP110CM	XCKP2110G11	XCKD2110G11	XCKP518	XCKP2518N12	XCKD2518N12	XCKT121	XCKT2121N12
XCKP111	XCKP2111N12	XCKD2111N12	XCKP521	XCKP2521N12	XCKD2521N12	XCKT145	XCKT2145N12
XCKP118	XCKP2118N12	XCKD2118N12	XCKP527	XCKP2527N12	XCKD2527N12	XCKT501	XCKT2501N12
XCKP118CM	XCKP2118G11	XCKD2118G11	XCKP628	XCKP2628N12	XCKD2628N12	XCKT502	XCKT2502N12
XCKP121	XCKP2121N12	XCKD2121N12	XCKP721	XCKP2721N12	XCKD2721N12	XCKT510	XCKT2510N12
XCKP121CM	XCKP2121G11	XCKD2121G11	XCKP791	XCKP2791N12	XCKD2791N12	XCKT518	XCKT2518N12
XCKP127	XCKP2127N12	XCKD2127N12	XCKP802	XCKP2802N12	XCKD2802N12	XCKT521	XCKT2521N12
XCKP128	XCKP2128N12	XCKD2128N12	XCKP810H7	XCKP2810N12	XCKD2810N12		
XCKP1305979	XCKP2191N12	XCKD2191N12	XCKP902	XCKP2902N12	XCKD2902N12		
XCKP145	XCKP2145N12	XCKD2145N12	XCKP910H7	XCKP2910N12	XCKD2910N12		
XCKP145CM	XCKP2145G11	XCKD2145G11	XCKPMEQ3412	XCKP2145N12	XCKD2145N12		

XCKP, XCKD and XCKT Component and Catalog Number Selection

XCKD Components					XCKP Components					XCKT Components			
Metal Body	Consists of:			Conduit	Plastic Body	Consists of:			Conduit	Plastic Body	Consists of:		
Cat Number	Body	Head	Lever	Adapter	Cat Number	Body	Head	Lever	Adapter	Cat Number	Body	Head	Lever
XCKD2118G11	ZCD21	ZCE01	ZCY18	ZCDEG11	XCKP2101N12	ZCP21	ZCE01	N/A	ZCPEN12	XCKT2102N12	ZCT21N12	ZCE02	
XCKD2102N12	ZCD21	ZCE02		ZCDEN12	XCKP2102G11	ZCP21	ZCE02		ZCPEG11	XCKT2106N12	ZCT21N12	ZCE06	
XCKD2121G11	ZCD21	ZCE21		ZCDEG11	XCKP2102N12	ZCP21	ZCE02		ZCPEN12	XCKT2110N12	ZCT21N12	ZCE10	
XCKD2118N12	ZCD21	ZCE01	ZCY18	ZCDEN12	XCKP2106N12	ZCP21	ZCE06		ZCPEN12	XCKT2111N12	ZCT21N12	ZCE11	
XCKD2145N12	ZCD21	ZCE01	ZCY45	ZCDEN12	XCKP2110G11	ZCP21	ZCE10		ZCPEG11	XCKT2118N12	ZCT21N12	ZCE01	ZCY18
XCKD2121N12	ZCD21	ZCE21		ZCDEN12	XCKP2110N12	ZCP21	ZCE10		ZCPEN12	XCKT2121N12	ZCT21N12	ZCE21	
XCKD2145N12	ZCD21	ZCE01	ZCY45	ZCDEN12	XCKP2111N12	ZCP21	ZCE11		ZCPEN12	XCKT2145N12	ZCT21N12	ZCE01	ZCY45
XCKD2191N12	ZCD21	ZCE01	ZCY91	ZCDEN12	XCKP2118G11	ZCP21	ZCE01	ZCY18	ZCPEG11	XCKT2501N12	ZCT25N12	ZCE01	N/A
XCKD2106N12	ZCD21	ZCE06		ZCDEN12	XCKP2118N12	ZCP21	ZCE01	ZCY18	ZCPEN12	XCKT2502N12	ZCT25N12	ZCE02	
XCKD2102G11	ZCD21	ZCE02		ZCDEG11	XCKP2121G11	ZCP21	ZCE21		ZCPEG11	XCKT2510N12	ZCT25N12	ZCE10	
XCKD2110N12	ZCD21	ZCE10		ZCDEN12	XCKP2121N12	ZCP21	ZCE21		ZCPEN12	XCKT2518N12	ZCT25N12	ZCE01	ZCY18
XCKD2145G11	ZCD21	ZCE01	ZCY45	ZCDEG11	XCKP2127N12	ZCP21	ZCE27		ZCPEN12	XCKT2521N12	ZCT25N12	ZCE21	
XCKD2127N12	ZCD21	ZCE27		ZCDEN12	XCKP2128N12	ZCP21	ZCE28		ZCPEN12	XCKT2528N12	ZCT25N12	ZCE28	
XCKD2191N12	ZCD21	ZCE01	ZCY91	ZCDEN12	XCKP2145G11	ZCP21	ZCE01	ZCY45	ZCPEG11				
XCKD2502N12	ZCD25	ZCE02		ZCDEN12	XCKP2145N12	ZCP21	ZCE01	ZCY45	ZCPEN12				
XCKD2910N12	ZCD29	ZCE10		ZCDEN12	XCKP2154N12	ZCP21	ZCE01	ZCY54	ZCPEN12				
XCKD2721N12	ZCD27	ZCE21		ZCDEN12	XCKP2155N12	ZCP21	ZCE01	ZCY55	ZCPEN12				
XCKD2518N12	ZCD25	ZCE01	ZCY18	ZCDEN12	XCKP2191N12	ZCP21	ZCE01	ZCY91	ZCPEN12				
XCKD2791N12	ZCD27	ZCE01	ZCY91	ZCDEN12	XCKP2502N12	ZCP25	ZCE02		ZCPEN12				
XCKD2902N12	ZCD29	ZCE02		ZCDEN12	XCKP2506N12	ZCP25	ZCE06		ZCPEN12				
XCKD2111N12	ZCD21	ZCE11		ZCDEN12	XCKP2510N12	ZCP25	ZCE10		ZCPEN12				
XCKD2106N12	ZCD21	ZCE06		ZCDEN12	XCKP2518N12	ZCP25	ZCE01	ZCY18	ZCPEN12				
XCKD2521N12	ZCD25	ZCE21		ZCDEN12	XCKP2521N12	ZCP25	ZCE21		ZCPEN12				
XCKD2791N12	ZCD27	ZCE01	ZCY91	ZCDEN12	XCKP2527N12	ZCP25	ZCE27		ZCPEN12				
XCKD2128N12	ZCD21	ZCE28		ZCDEN12	XCKP2628N12	ZCP26	ZCE28		ZCPEN12				
XCKD2810N12	ZCD28	ZCE10		ZCDEN12	XCKP2721N12	ZCP27	ZCE21		ZCPEN12				
XCKD2101N12	ZCD21	ZCE01	N/A	ZCDEN12	XCKP2791N12	ZCP27	ZCE01	ZCY91	ZCPEN12				
XCKD2510N12	ZCD25	ZCE10		ZCDEN12	XCKP2802N12	ZCP28	ZCE02		ZCPEN12				
XCKD2155N12	ZCD21	ZCE01	ZCY55	ZCDEN12	XCKP2810N12	ZCP28	ZCE10		ZCPEN12				
XCKD2110G11	ZCD21	ZCE10		ZCDEG11	XCKP2902N12	ZCP29	ZCE02		ZCPEN12				
XCKD2102D16	ZCD21	ZCE02		ZCDED16	XCKP2910N12	ZCP29	ZCE10		ZCPEN12				
XCKD2506N12	ZCD25	ZCE06		ZCDEN12									
XCKD2802N12	ZCD28	ZCE02		ZCDEN12									
XCKD2502N12	ZCD25	ZCE02		ZCDEN12									
XCKD2527N12	ZCD25	ZCE27		ZCDEN12									
XCKD2154N12	ZCD21	ZCE01	ZCY54	ZCDEN12									
XCKD2127N12	ZCD21	ZCE27		ZCDEN12									
XCKD2628N12	ZCD26	ZCE28		ZCDEN12									

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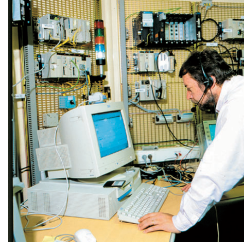
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M4B 1 Y2
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